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**Low-Cost Solar Array Project**

**Four Absolute Cavity  
Radiometer (Pyrheliometer)  
Intercomparisons at New River,  
Arizona**

**Radiometer Standards**

**Roger S. Estey  
Clay H. Seaman**

(NASA-CR-164950) LOW-COST SOLAR ARRAY  
PROJECT: FOUR ABSOLUTE CAVITY RADIOMETER  
(PYRHELIOMETER) INTERCOMPARISONS AT NEW  
RIVER, ARIZONA: RADIOMETER STANDARDS (Jet  
Propulsion Lab.) 207 p HC A10/MF A01

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Prepared for  
U.S. Department of Energy  
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National Aeronautics and Space Administration  
by  
Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, California

JPL PUBLICATION 81-60

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## ABSTRACT

Four detailed intercomparisons were made for a number of models of cavity-type self-calibrating radiometers (pyrheliometers). Each intercomparison consisted of simultaneous readings of pyrheliometers at 30-second intervals in runs of 10 minutes, with at least 15 runs per intercomparison. Twenty-seven instruments were in at least one intercomparison, and five were in all four. Summarized results and all raw data are provided from the intercomparisons.

## ACKNOWLEDGEMENTS

The intercomparisons of pyrheliometers described in this report were made possible by the organizing efforts of Gene Zerlaut, DSET Laboratories; Edwin C. Flowers, National Oceanic and Atmospheric Administration (NOAA); and Chester V. Wells, Solar Energy Research Institute (SERI). Special thanks are extended to the personnel of DSET Laboratories for the operations planning, the excellent facilities provided, and for their continued efforts in maintaining the hospitable working environment which existed throughout these intercomparisons. The activity was jointly supported by NOAA, Department of Energy (DOE), SERI, and DSET Laboratories. The success of the undertaking was made possible by the enthusiastic participation of all the experimenters. The preparation of this report is sponsored by the Department of Energy and the editing and publication accomplished by Jet Propulsion Laboratory. Sincere thanks are expressed to these organizations, the people mentioned, and all other contributors to the success of this project.

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## SECTION 1

### INTRODUCTION

This report presents detailed intercomparisons (simultaneous comparisons of several instruments) of a large group of cavity-type self-calibrating radiometers (pyrheliometers) performed at DSET Laboratories, New River, Arizona, during four meetings: November 1-3, 1978, May 2-3, 1979, November 5-9, 1979, and November 17-19, 1980. In an informal way, the consensus of the measurements of this peer group of instruments intercompared at New River represents the standard international (SI) radiometric scale. Five of the instruments (EPAC 11402, EPAC 12843, H-F 15745, PM02, and MK VI 67502) were also intercompared at Davos, Switzerland, in the Fourth International Pyrheliometer Comparison (IPC IV) meeting sponsored in 1975 by the World Meteorological Organization (WMO).

The pyrheliometer is a full-spectrum radiometer with a narrow view angle which makes it peculiarly adaptable to the measurement of direct beam insolation. With these instruments, radiation can be accurately measured by the substitution of electrical measurements of current and voltage.

The instruments are designed to minimize all possible errors (e.g., each instrument is equipped with a cavity detector to create an absorptivity close to unity). The resulting accuracy exceeds that of the blackbody standards maintained by the various standardizing laboratories.

In each intercomparison the participating instruments were mounted on trackers and aligned on the Sun. Simultaneous measurements were made and the rank of each instrument computed relative to the mean of all. Observations were made only when Sun and sky conditions were steady. The data bank contains about 36,000 readings involving 27 instruments. The breakdown is shown below.

<u>Intercomparison</u>	<u>Participating Instruments</u>	<u>Solar Observations</u>
Nov. 1-3, 1978	13	315
May 2-3, 1979	12	441
Nov. 5-9, 1979	16	550
Nov. 17-19, 1980	15	465

Since each instrument is self-calibrating and is presumed to be properly characterized, and since the solar irradiance cannot be standardized independently, instrument accuracy can only be identified by comparison of each instrument's performance with that of a peer group. This is the function of the New River intercomparisons. In each solar observation, the reading of each instrument is ratioed to the mean value of all instruments participating. These ratios are collected and displayed in the tables included in the Appendix of

this report. The very small spread in instrument performance which these tables display represents the state-of-the-art in precision radiometers and the representation of the SI radiometric scale.

Because of the importance of the standard and because of the unique opportunity to present so large a group of precision measurements extending over more than 2 years, this report presents not only the summaries and supporting editorial matter, but the entire original data file as well.

## SECTION 2

### THE TEST SITE

The test site was on the premises of DSET Laboratories, Inc., located on a desert plateau about 64 km (40 miles) north of Phoenix, Arizona. The parameters were

33° 51' N

112° 10' W

610 m (2000 ft) elevation

289 K (60°F) average temperature

30% average relative humidity

12 hrs average daily sunshine in May

10 hrs average daily sunshine in November

A long sturdy bench with an upper shelf was located in a true east-west direction. Each participant was provided about 1.5 m (5 ft) of working space. The upper shelf was a convenient steady support for mounting the various tracking units. One hundred seventeen volts of grounded alternating current were supplied to the bench at convenient positions. A large trailer located just north of the layout served for meetings and for instrument storage overnight and during inclement weather.

Dates for each intercomparison were selected to ensure the greatest probability of clear sky conditions, and generally, these conditions continued until the middle or late afternoon.

## SECTION 3

### THE INSTRUMENTS

All of the instruments used in the four intercomparisons are similar, but not identical, cavity-type self-calibrating pyrheliometers manufactured by one of five organizations. The list of all participants, participating instruments, and sponsors is shown in Table 3-1. Note that 27 instruments were used in at least one intercomparison and five were used in all four.

Each pyrheliometer compared consists of a sensing unit and a control unit. The sensing unit contains the radiation sensor and the equivalent heater. The control unit contains power supplies, amplifiers, reference voltages, controls, and display. The instruments are broadly similar in construction, mode of operation, and performance. All employ cavity detectors characterized by values of absorptivity very close to 1.000 and means for heating the cavity to the same level as that produced by incident radiation. This permitted radiation measurements to be made as electrical measurements at the heater. (Heater wattage can be measured electrically with far more accuracy than is possible with any direct means for measuring optical radiation.)

The most conspicuous design differences among the compared pyrheliometers are in the readout and control features. The principal technical differences between manufacturers relate to the means employed to measure the equivalence of radiant heating and electrical heating and the means employed to make the readings independent of ambient temperature or temperature gradients in the detector structure or the case.

All of the instruments are provided with diaphragms spaced out in front of the cavity to define the field-of-view which limits the contribution of the circumsolar sky. Traditionally, the field is about 5 degrees included angle. The WMO defines acceptable view angles in terms of the field stop radius, the radius of the aperture stop (or detector), and the length of the collimator. The geometry is shown in Figure 3-1. The half angle values recommended by the WMO are:

$$\text{Opening Angle} \quad Z_o = \tan^{-1} R/L \leq 4^\circ$$

$$\text{Slope Angle} \quad Z_p = \tan^{-1} \left[ (R-r)/L \right]; 1^\circ \leq Z_p \leq 2^\circ$$

$$\text{Limit Angle} \quad Z = \tan^{-1} \left[ (R+r)/L \right]; \text{not specified.}$$



Table 3-1. Inventory of Instruments and Experimenters (1 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
<p>Manufacturer: The Appley Laboratory, Inc., 12 Sheffield Ave., Newport, RI 02840</p>				
1	EPAC 11399	Verne Marsh J. Wilson	1,3 3	Atmospheric Environment Service Downsview, Ont., Canada
2	EPAC 11402*	Dave Daniels Frank Griffin John Hickey	1 1 1	The Eppley Laboratory Newport, RI 02840
3	EPAC 12843*	Richard Cram Jerome Nimira E. C. Flowers William Morrison	3 3 4 4	National Oceanic and Atmospheric Administration Boulder, CO 80303
4	H-F 14706	Jack Hill Bill Putnam Gene Zerlaut	1 1 1	DSET Laboratories, Inc. New River, AZ 85029
5	H-F 14915†	Dave Daniels Richard Eggeman Frank Griffin John Hickey	1 2 1,2,3,4 1,4	The Eppley Laboratory Newport, RI 02840
6	H-F 14917	An-Ti Chai	2	NASA-Lewis Research Center Cleveland, OH 44135
7	H-F 15745	Edwin Flowers William Morrison	1,2,3,4 1,2,3,4	National Oceanic and Atmospheric Administration Boulder, CO 80303
8	H-F 17142†	Jack Hill Gene Zerlaut William Noorlag	2,3 2,3,4 4	DSET Laboratories, Inc. New River, AZ 85029

\*Compared at Davos in 1975.

†Compared at Davos in 1980.

Table 3-1. Inventory of Instruments and Experimenters (2 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
9	H-F 18747+	Verne Marsh J. Wilson	3 3	Atmospheric Environment Service Downsview, Ont., Canada
10	H-F 18748	Frank Griffin John Hickey	3,4 4	The Eppley Laboratory Newport, RI 02840

Manufacturer: Jet Propulsion Laboratory,  
4800 Oak Grove Drive,  
Pasadena, CA 91109

11	MK VI 001	Roger Estey Clay Seaman Leo Zafonte Jerry Person	2,3 2,4 3 4	Jet Propulsion Laboratory Pasadena, CA 91109
12	ACR-VI 601	Richard Cram Jerome Nimira	3 3	National Oceanic and Atmospheric Administration Boulder, CO 80303
13	MK VI 67702+	Eric Laue	1,2,3,4	Jet Propulsion Laboratory Pasadena, CA 91109

Manufacturer: Physikalisch-Meteorologisches Observatorium Davos,  
CH-7260, Davos Dorf, Switzerland

14	PM02*	Robert Brusa	3	PMOD Switzerland
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\*Compared at Davos in 1975

\*Compared at Davos in 1980

Table 3-1. Inventory of Instruments and Experimenters (3 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
Manufacturer: The Radiometrics Corp. (No longer in business)				
15	ACR V 501	G. Reilly J. Zugel	1 1	Boeing Aerospace Co. Seattle, WA 98124
16	ACR 1104	Donald Grether David Evans	4 4	Lawrence Berkeley Laboratory Berkeley, CA 94720
Manufacturer: Technical Measurements, Inc., Box 838, La Canada, CA 91011				
17	MK VI 67401*†	Martin Berdahl J.M. Kendall, Sr. R.E. Martin John Stallkamp William Holman	2 1,2,3,4 1,3 2 4	Technical Measurements, Inc. La Canada, CA 91011
18	MK VI 67502*†	E.C. Flowers William Morrison	1,2,3,4 1,2,3,4	National Oceanic and Atmospheric Administration Boulder, CO 80303
19	MK VI 67603	Philip Thacher	1,2,3	Sandia Laboratories Albuquerque, NM 87187
20	MK VI 67706	Allen Hood Dorr Kimball	1,4 1,2,3	Southern California Edison Co. Alhambra, CA 91802
21	MK VI 67707	C.R. Sreedharan Jeff Secrist	1 1	Utah State University Logan, Utah 84322
22	MK VI 67811	Philip Thacher Richard Womelsduff	2 2	Sandia Laboratories Albuquerque, NM 87187

\*Compared at Davos in 1975

†Compared at Davos in 1980

Table 3-1. Inventory of Instruments and Experimenters (4 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
23	MK VI 67812	C.G. Justus A.T. Sales	1 1,3	Georgia Institute of Technology Atlanta, GA 30332
24	MK VI 67814†	Daryl Myers Tom Stoffel Chester Wells	2,3 1,2 1,2,3,4	Solar Energy Research Institute Golden, CO 80401
25	MK VI 68017	Tom Stoffel Chester Wells	4 4	Solar Energy Research Institute Golden, CO 80401
26	MK VI 68018	Tom Stoffel Chester Wells	4 4	Solar Energy Research Institute Golden, CO 80401
27	MK VI 68020	Clifford L. Christopher	4	Martin Marietta Aerospace Denver, CO 80201

†Compared at Davos in 1980

The instruments in the intercomparisons had collimator angles as follows:

<u>Instrument</u>	<u>Slope Angle, deg</u>	<u>Opening Angle, deg</u>
H-F	0.8	2.5
ACR	0.8	2.5
PM02	0.74	2.4
TM1	0.8	2.5

For statistical analysis of the data leading to the best evaluation of each instrument relative to the group and any analysis of the group as a whole, one must consider systematic errors in the instruments and random errors in the instrument readings and in the values of solar irradiance. All known error sources are investigated and compensated, eliminated, or recognized as a

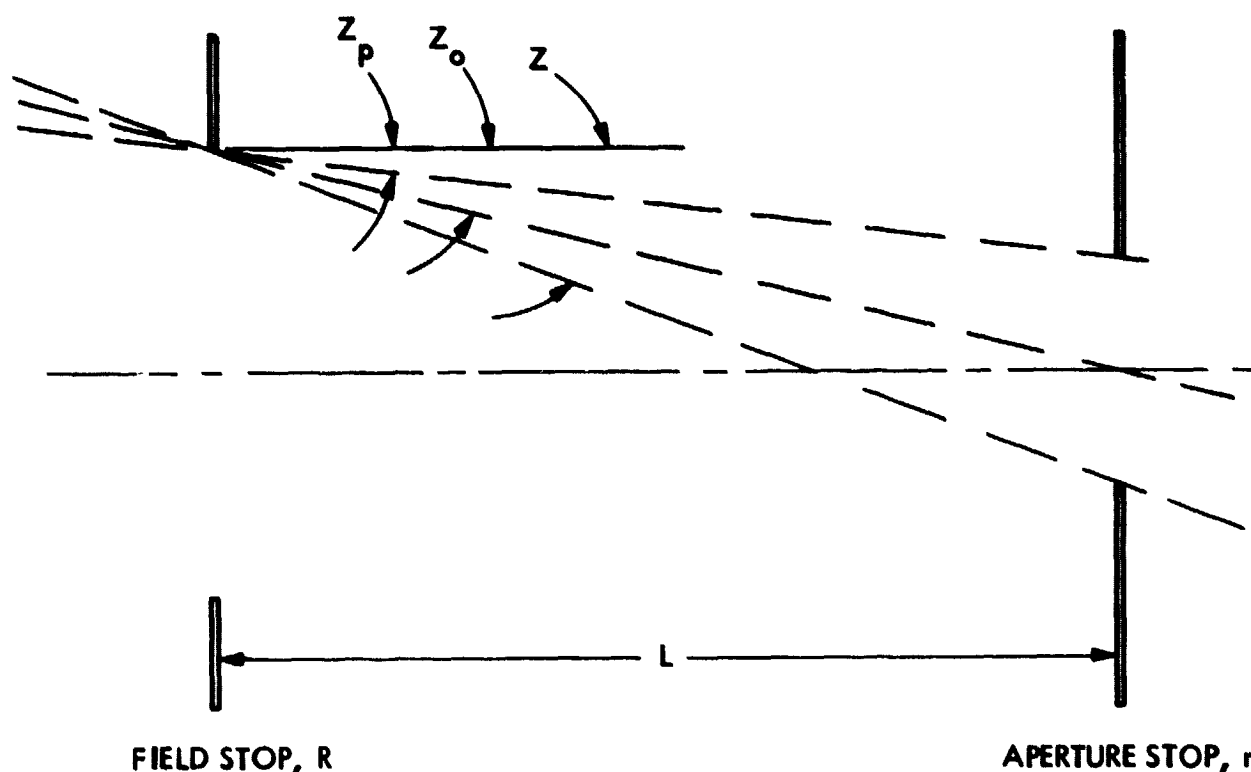


Figure 3-1. Collimator Geometry

characterization correction factor. A typical error budget is reported by Kendall and Berdahl\* to yield a characterization correction factor of 0.999 for their particular instrument. The factor for commercial instruments usually lies between 0.99 and 1.01.

The accuracy of the electrical measurements of the cavity heater is directly dependent on the reliability of the instrument's calibration (in SI units) under the field conditions and the thermal environment prevalent at the time. Calibration to SI units within 0.1 percent is easily achieved.

Regardless of details of construction, each pyrheliometer measures irradiance above a zero level established by the thermal equilibrium of the case and structure and the radiation exchange between the detecting cavity and the under side of the shutter. If this shutter surface is highly reflecting, moderate variations in the ambient temperature of the shutter have no appreciable effect on the radiometer zero and hence on the unshuttered radiometer reading because the solid angle of the shutter is so small.

\*Kendall, J.M. and C.M. Berdahl, Applied Optics 9, 1082-1091 (1970)

## SECTION 4

### THE EXPERIMENT

The experiment consisted of simultaneous measurements of the direct solar irradiance using all available instruments individually mounted on equatorial solar trackers. Data taking was limited to clear sky conditions. The measurements are organized in 10-minute sequences of 21 readings at 30-second intervals. Enough time was allowed at the beginning and end of each run to check calibration and alignment.

In a typical experiment, the instruments were set up on the bench and energized. The radiometers are mounted on their trackers and aligned to the Sun. After 30 minutes warmup, the measuring sequence proceeded simultaneously for all instruments under the control of a program director who called the time at 30-second intervals. Each 10-minute run was preceded and followed by time for calibration. Twenty-one readings of direct solar irradiance were taken by each instrument and reported as  $W/m^2$ . The MK VI 67502, operated by Ed Flowers, served as a pro tem reference, and the mean and standard deviation of his data set are reported immediately after each run. Each experimenter computed the mean and standard deviation of his data set, and comparisons with the pro tem reference provided an immediate, though rough, indication of each instrument's performance. Finally, the standard deviation of the run provided an estimate of the stability of the irradiances observed.

The deflection instruments can take data on the 30-second schedule, but the ACR instruments, in some cases, cannot because they operate on a 60-seconds-on-60-seconds-off cycle. Hence, the synchronization of these data with the rest is difficult.

Delays sometimes arose from instrument difficulties or from the appearance of patchy clouds. The test director called for holds as required. Any run which was interrupted for more than two readings was cancelled. Runs were extended when necessary to complete a 21-observation sequence.

The principal experimental conditions which influenced the data were unsteady sky conditions, wind, and drifts in the signal or calibration due to changes in the radiometer or control unit temperature. Variations in solar irradiance are particularly bothersome because instruments with different time constants respond differently from one another. Gusts of wind cool the radiometer entrance aperture and the cavity nonuniformly. Both of these affect the instruments variously because gusts do not reach all instruments simultaneously or with uniform intensity from one instrument to another.

Because of these factors, the observational variability disclosed by the data analysis must, therefore, be assigned to the source and the radiometer in unknown proportions.

## SECTION 5

### THE DATA

As mentioned previously, the data were grouped in 10-minute runs, each containing 21 observations. In a few cases, the number of observations per run was less because of sky conditions or instrument unreadiness. The readings express direct solar irradiance in watts/square meter. Observed values ran from about 700 to 1100 W/m<sup>2</sup>.

The measurements made during each run were recorded on standard forms as they occurred. The mean and standard deviation (S.D.) of each run were computed immediately and compared with the results reported for N. 18, the reference instrument. Reproduced copies of all the raw data, edited by the experimenter if necessary, were circulated to all participants. The data presented in this report is reproduced from one of the copies of the original records.

In this published report, all of the data obtained during each intercomparison are presented in tables organized by date and run number. These data are presented in Appendix Tables 1-1 through 1-15, 2-1 through 2-22, 3-1 through 3-29, and 4-1 through 4-29 for the four intercomparisons respectively. Each sub-table presents the data from one run. The runs are identified, and the sub-tables are numbered in sequence. Each page contains two tabulations, the observed irradiances and the data normalized to the mean. Each row is identified with the time shown at the left, each column is identified with the instrument corresponding to the column number in the heading. Refer to Table 3-1 for instrument identification and details. For each observation, the mean irradiance and standard deviation of all instruments are shown in the last two columns. In the lower part of the tabulation, the values represent each irradiance reading divided by the row mean. At the bottom of each column are found means and S.D.'s of each radiometer averaged over the run.

Tables 5-1 through 5-4 summarize the relative performance of each instrument over each of the four intercomparisons respectively.

The tables in this section have been prepared with the minimum of statistical treatment; limited in fact to the computation of means and standard deviations and the rejection of values which appeared to have more than random error. A deviation greater than  $3\sigma$  served as a basis for arbitrary rejection. The number of rejections was extremely small.

Table 5-1. First Intercomparison - November 2, 3, 1978

## Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number														24
	1	2	4	5	7	13	15	17	18	19	20	21	23		
1	1.0027	0.9991	0.9945	1.0015	0.9992	0.9970	1.0048	0.9983	1.0029	1.0006	1.0013	1.0002	0.9975	1.0003	
2	1.0019	1.0012	0.9954	1.0006	0.9981	0.9983	1.0046	0.9996	1.0044	0.9999	1.0008	0.9983	0.9979	0.9989	
3	0.9991	0.9987	0.9996	1.0010	0.9988	0.9956	1.0047	1.0006	1.0012	1.0002	1.0020	1.0000	0.9987	0.9997	
4	1.0016	1.0037	0.9966	0.9992	0.9969	0.9968	1.0048	0.9980	1.0028	1.0000	1.0013	1.0001	0.9985	0.9996	
5	1.0022	1.0038	0.9946	1.0023	0.9999	0.9983		0.9997	1.0013	0.9943	1.0025	1.0008	0.9987	1.0007	
6	1.0044	1.0002	0.9941	0.9989	0.9996	0.9989	1.0054	1.0000	1.0048	0.9908	1.0031	1.0006	0.9989	1.0005	
7	1.0015	0.9982	0.9941	1.0006	0.9994	0.9973	1.0076	1.0004	1.0028	0.9953	1.0029	1.0001	0.9990	1.0006	
8	1.0004	1.0009	0.9974	1.0006	0.9979		1.0057	0.9985	1.0005	0.9990	1.0007	0.9994	0.9990	1.0000	
9	1.0003	1.0001		1.0009	0.9985	0.9944	1.0050	1.0000	1.0023	1.0004	1.0009	0.9987	0.9982	1.0002	
10	1.0031	0.9994		1.0020	0.9998	0.9962	0.9936	0.9994	1.0025	1.0003	1.0030	1.0006	0.9994	1.0009	
11	0.9988	1.0003		1.0013	0.9990	0.9953		0.9997	1.0027	1.0012	1.0018	1.0004	0.9984	1.0012	
12	0.9988	0.9999		1.0017	0.9981	0.9953	1.0040	0.9998	1.0020	1.0013	1.0007	1.0002	0.9976	1.0007	
13	1.0005	1.0007	0.9955	1.0009	0.9990	0.9959	1.0043	0.9990	1.0017	1.0005	1.0017	1.0005	0.9990	1.0007	
14	1.0022	1.0035	0.9946	1.0007	0.9992	0.9943	1.0056	0.9978	1.0024	1.0010	1.0009	0.9999	0.9987	0.9995	
15	0.9992	1.0028	0.9946	1.0011	0.9990	0.9972		0.9990	1.0033	1.0020	1.0021	0.9998	0.9994	1.0004	
Mean	1.0011	1.0008	0.9955	1.0009	0.9988	0.9965	1.0042	0.9993	1.0025	0.9991	1.0017	1.0000	0.9986	1.0003	
S.D.	0.0017	0.0018	0.0017	0.0009	0.0008	0.0014	0.0035	0.0009	0.0011	0.0031	0.0009	0.0007	0.0006	0.0006	



Table 5-2. Second Intercomparison - May 2-3, 1979  
Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number												19	20	22	24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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1	1.0017	0.9989	0.9982	1.0023	1.0055	1.0010	0.9965	1.0007	0.9993	0.9990																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

Table 5-3. Third Intercomparison - November 5, 8, 9, 1979  
Summary of Each Instrument Relative to Mean of All Instruments

Run No.	1	3	5	7	8	9	10	11	12	13	14	17	18	19	20	23	24
	Instrument Identification Number																
1	1.0033	1.0003		0.9970	1.0019	0.9989	1.0020	1.0030		1.0007	1.0005	1.0005	0.9986	0.9960	0.9972		0.9982
2	0.9988	0.9979		0.9964	1.0009	0.9991	1.0027	0.9994	1.0060	1.0023	1.0012	1.0015	0.9998	0.9999	1.0008		0.9984
3	0.9983	1.0002		0.9967	0.9993	0.9986	1.0042	1.0021	1.0010	1.0020	1.0002	1.0023	0.9974	0.9993	1.0007		0.9986
4	0.9987	0.9896		0.9973	1.0006	0.9996	1.0030	1.0009	1.0101	1.0024	1.0006	1.0006	1.0023	1.0004	1.0000		0.9992
5	0.9943	1.0003		0.9964	1.0013	0.9978	1.0032	1.0048	1.0092	1.0015	1.0016	0.9999	1.0004	0.9997	0.9959	0.9974	0.9963
6	0.9962	0.9910		0.9967	1.0006	0.9989	1.0034	1.0021	1.0056	1.0031	1.0008	1.0052	0.9998	1.0001	1.0025	0.9970	0.9985
7	0.9997	0.9905		0.9969	1.0005	0.9991	1.0034	1.0050	1.0090	1.0026	1.0001	0.9986	1.0002	0.9998	1.0001	0.9978	0.9987
8	0.9967	0.9947		0.9974	1.0013	0.9998	1.0046	1.0008	1.0054	1.0045	1.0012	1.0030	1.0016	1.0008	1.0007	0.9985	0.9995
9	1.0008	0.9850		0.9970	1.0012	0.9993	1.0039	1.0015	1.0019	1.0025	1.0017	1.0040	1.0004	1.0009	1.0034	0.9987	0.9994
10	0.9953	0.9844		0.9978	1.0024	0.9992	1.0041	1.0024	1.0050	1.0030	1.0027	1.0035	1.0021	1.0013	1.0024	0.9980	1.0003
11	1.0018	0.9895		0.9967	1.0011	0.9986	1.0041	1.0015	1.0040	1.0029	1.0012	1.0022	0.9995	0.9997	1.0010	0.9970	0.9992
12	0.9978	0.9874		0.9967	1.0007	0.9986	1.0033	1.0022	1.0091	1.0026	1.0008	1.0025	0.9992	1.0003	1.0015	0.9974	0.9993
13	1.0025	0.9906		0.9971	0.9997	0.9983	1.0027	1.0036	1.0068	1.0026	1.0015	1.0028	0.9993	1.0003	0.9998	0.9978	0.9997
14		0.9932		0.9967	1.0028			1.0041	1.0070	1.0020	0.9993	1.0027	1.0011	0.9991	1.0010	0.9980	0.9984
15		0.9956		0.9974	0.9987			1.0067	1.0008	1.0022	1.0005	1.0032	0.9978	1.0004	0.9995	0.9985	0.9989
16		0.9808		0.9974	1.0019			1.0025	1.0066	1.0056	1.0009	1.0035	1.0006	1.0005	1.0018	0.9989	0.9992
17		0.9812		0.9978	1.0025			1.0059	1.0059	1.0029	1.0011	1.0032	1.0010	1.0009	1.0002	0.9983	0.9991
18	0.9981	0.9789		0.9988	1.0023	1.0004		1.0069	1.0071	1.0031	1.0009	1.0022	1.0011	1.0006	1.0004	0.9997	0.9986
19	0.9989	1.0015		0.9960	1.0013	0.9981		1.0032	1.0079	1.0009	0.9995	1.0008	0.9996	0.9986	0.9991	0.9969	0.9976
20	0.9982	0.9956	1.0078	0.9973	1.0013	0.9986		1.0062	1.0068	1.0014	1.0006	1.0014	0.9996	0.9996	0.9987	0.9975	0.9981
21	0.9989	0.9952	1.0012	0.9966	1.0025	0.9988		1.0029	1.0088	1.0005	0.9999	1.0005	0.9993	0.9988	1.0009	0.9973	0.9979
22	0.9981	0.9956	1.0011	0.9968	1.0008	0.9986		1.0044	1.0089	1.0014	1.0005	1.0005	0.9992	0.9997	0.9994	0.9967	0.9984
23	0.9981	0.9982	1.0004	0.9965	0.9999	0.9982		1.0043	1.0112	1.0020	0.9997	1.0006	0.9985	0.9990	0.9995	0.9961	0.9978
24	0.9984	0.9961	1.0005	0.9970	1.0006	0.9985		1.0039	1.0098	1.0014	1.0000	1.0006	0.9991	0.9996	0.9988	0.9972	0.9983
25	0.9996		1.0025	0.9973	1.0019	0.9995					1.0002		1.0005	1.0004	1.0015	0.9975	0.9993
26	0.9969		1.0023	0.9979	1.0020	1.0000					1.0015		1.0003		1.0012	0.9977	1.0002
27	0.9984		1.0020	0.9982	1.0021	0.9993					1.0014		1.0012			0.9978	0.9996
28	0.9994		1.0025	0.9978	1.0013	1.0004					1.0013		0.9999			0.9976	0.9998
29	1.0037		0.9998	0.9975	1.0015	0.9992					1.0010		1.0000			0.9980	0.9993
Mean	0.9988	0.9918	1.0013	0.9971	1.0012	0.9990	1.0034	1.0033	1.0067	1.0023	1.0008	1.0019	1.0000	0.9999	1.0003	0.9977	0.9989
S.D.	0.0023	0.0067	0.0010	0.0006	0.0010	0.0007	0.0007	0.0020	0.0028	0.0011	0.0007	0.0015	0.0012	0.0008	0.0016	0.0008	0.0007

Table 5-4. Fourth Intercomparison - November 17-19, 1980

Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number															
	3	5	7	8	10	11	13	16	17	18	20	24	25	26	27	
1		1.0000	0.9930	1.0013	1.0003	1.0019	1.0018	1.0049	0.9998	0.9990	1.0007	0.9979		1.0016	1.0000	
2	0.9991	1.0003	0.9961	1.0010	1.0027	1.0027	1.0017	1.0111	0.9988	0.9987	0.9988	0.9975		1.0002	0.9967	
3	0.9997	1.0000	0.9963	1.0022	1.0019	1.0015	1.0007	1.0119	0.9984	0.9981	0.9974	0.9975		1.0017	0.9982	
4	1.0005	0.9998	0.9960	1.0019	1.0020	1.0008	1.0016	1.0107	0.9989	0.9977	0.9991	0.9975		1.0004	0.9984	
7	1.0028	1.0001	0.9966	1.0000	1.0023	1.0013	1.0013	1.0053	0.9980	0.9996	1.0002	0.9975	0.9976	1.0008	0.9991	
8	1.0012	1.0007	0.9965	1.0025	1.0022	0.9997	1.0006	1.0089	0.9971	0.9992	0.9982	0.9974	1.0002	1.0005	0.9991	
9	1.0041	1.0002	0.9962	1.0013	1.0024	1.0018	1.0007	1.0066	0.9975	1.0008	0.9987	0.9971	0.9978	0.9995	0.9988	
10	1.0018	0.9998	0.9959	1.0008	1.0023	1.0007	1.0007	1.0061	0.9992	0.9993	1.0004	0.9973	0.9985	1.0009	0.9994	
11	1.0036	1.0000	0.9960	1.0008	1.0027	1.0022	1.0004	1.0041	0.9985	0.9992	0.9975	0.9976	0.9987	1.0016	0.9994	
12	1.0034	0.9996	0.9961	1.0008	1.0021	1.0004	1.0006	1.0103	0.9980	0.9985	0.9977	0.9975	0.9995	1.0008	0.9995	
13	1.0006	1.0004	0.9957	1.0027	1.0021	1.0023	1.0000	1.0094	0.9983	0.9984	0.9989	0.9976	0.9988	1.0008	0.9990	
14	1.0006	1.0000	0.9966	1.0001	1.0027	0.9994	1.0019	1.0040	0.9991	0.9992	1.0006	0.9983	0.9992	1.0013	0.9992	
15	1.0003	1.0005	0.9971		1.0033	0.9982	1.0012	1.0066	0.9999	0.9979	0.9985	0.9990	0.9996	1.0018	0.9993	
16		1.0003	0.9962	0.9999	1.0031	1.0048	1.0002	1.0067	0.9980	0.9993	0.9985	0.9978	0.9989	1.0007	0.9988	
17		0.9999	0.9958	1.0022	1.0034	1.0034	1.0006	1.0027	0.9988	0.9977	0.9986	0.9984	0.9993	1.0017	0.9989	
18		0.9993	0.9962	1.0010	1.0023	1.0043	1.0008	1.0041	0.9990	0.9975	0.9999	0.9974	0.9998	1.0016	0.9994	
19		0.9994	0.9957	0.9989	1.0021	1.0036	1.0009	1.0022	0.9983	1.0007	0.9999	0.9991	0.9980	1.0025	1.0000	
20	1.0023	1.0005	0.9964	1.0006	0.9992	1.0017	1.0009	1.0092	0.9967	0.9990	0.9993	1.0002	0.9990	1.0007	0.9987	
21	1.0018	0.9999	0.9958	0.9995	1.0042	1.0020	1.0005	1.0077	1.0002	0.9988	0.9988	0.9968	0.9989	1.0002	0.9987	
22	1.0036	1.0001	0.9966	0.9998	1.0017	1.0010	1.0004	1.0106	0.9983	0.9994	0.9989	0.9973	0.9983	1.0001	0.9989	
23	1.0034	1.0003	0.9965	1.0000	1.0034	0.9978	1.0007	1.0099	0.9983	0.9992	0.9989	0.9976	0.9993	1.0008	0.9986	
24	1.0006	0.9997	0.9956	0.9997	1.0016	1.0017	1.0001	1.0092	0.9992	1.0007	1.0006	0.9969	0.9989	1.0010	0.9990	
25	1.0040	0.9996	0.9958	0.9993	1.0029	1.0017	1.0004	1.0089	0.9982	0.9995	0.9981	0.9978	0.9985	1.0005	0.9990	
26	1.0018	0.9999	0.9960	1.0001	1.0034	1.0002	1.0006	1.0092	0.9990	0.9981	1.0002	0.9977	0.9982	1.0019	0.9986	
27	1.0009	0.9998	0.9965	0.9999	1.0011	0.9993	1.0004	1.0104	0.9992	0.9985	1.0002	0.9974	0.9988	1.0030	0.9996	
28	0.9984	0.9996	0.9962	1.0011	1.0016	1.0039	1.0012	1.0084	0.9978	0.9989	0.9979	0.9979	0.9998	1.0019	0.9996	
29	1.0047		0.9950	1.0048	1.0015	1.0035	0.9998	1.0102	0.9957	0.9982	0.9969	0.9977	0.9985	1.0001	0.9983	
30	0.9978	0.9998	0.9960	1.0011	1.0015	1.0021	1.0007	1.0100	0.9983	0.9996	1.0008	0.9970	0.9989	1.0009	0.9999	
31	0.9993	0.9998	0.9961	1.0001	1.0016	1.0015	1.0008	1.0109	0.9993	0.9987	1.0001	0.9979	0.9988	1.0010	0.9994	
Mean	1.0015	1.0000	0.9960	1.0008	1.0022	1.0016	1.0008	1.0079	0.9985	0.9989	0.9991	0.9977	0.9989	1.0010	0.9990	
S.D.	0.0019	0.0003	0.0007	0.0012	0.0010	0.0017	0.0005	0.0028	0.0010	0.0009	0.0011	0.0007	0.0006	0.0008	0.0006	

## SECTION 6

### ANALYSIS

The four intercomparisons of pyrheliometers with the Sun as the source have produced a wealth of data in an amount never before assembled in experiments of this kind. Because the solar irradiance was constantly changing, only simultaneous measurements by all available instruments had any meaning. The data bank contained 1771 solar irradiance determinations. The mean and standard deviation of each determination were computed and serve to normalize the related individual readings. The results were aggregated into the tables presented in Section 5. It must be emphasized that the summaries, Tables 5-1 to 5-4, represent the ratio by which each instrument's result relates to the peer group average of a string of simultaneous solar measurements. These ratios averaged over the entire intercomparison provide each instrument with an average rank value relative to the peer group. These ratios, extracted from Tables 5-1 to 5-4, are assembled in Table 6-1 and provide the basis for the following discussion in terms of the entire data set and various subsets characterized by variations in insolation and variations among the instruments.

The quality of the calibration is measured by the mean performance of all the instruments treated as a peer group. Similar treatment with respect to various sub-groups is possible. The principal and final results shown in Table 6-1 indicate the ratio by which each instrument may be expected to read high or low with respect to the peer group mean computed for each intercomparison.

#### 6.1 DISPERSION OF DATA

The dispersion in the data is caused by variations in solar intensity, variations in observer technique, and instrument fluctuations. The solar contribution can be estimated from examples of noisy and quiet sky conditions using data from an observer and instrument deemed to be superior. The effect of an unusually quiet sky is shown by the plotted data and regression line in the upper part of Figure 6-1. The combination of slightly noisy sky conditions and rapidly changing irradiance is shown by the plotted points and regression line in the lower part of the figure.

The quiet sky was observed at noon and was cloud-free. The spread of the data is limited by the resolution of the readout. For this run, the observed irradiance was constant, and the standard deviation of the 21-measurement set was 0.06 percent. This is believed to represent the upper limit of variation due to instrument and operator causes. The second curve represents conditions in the late afternoon. The solar irradiance was dropping  $3.7 \text{ W/m}^2$  per minute, and typical afternoon clouds made the data conspicuously ragged. Another example is Figure 6-2, which shows the effect of thin cirrus clouds. The sky noise in the upper curve has a standard deviation of 2.38 and is acceptable. Six minutes later, the cirrus had thickened and become intolerable as shown in the lower graph, which is plotted to a much more compressed scale. The standard deviation for this run had grown to 60.6!

Table 6-1. Results of Each Intercomparison Showing Ratio of Each Instrument to the Group Mean

Control Number	Inter-comparison I		Inter-comparison II		Inter-comparison III		Inter-comparison IV	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
1	1.0011	0.0017			0.9988	0.0023		
2	1.0008	0.0018						
3					0.9918	0.0067	1.0015	0.0019
4	0.9955	0.0017						
5	1.0009	0.0009	1.0000	0.0007	1.0013	0.0010	1.0000	0.0003
6			0.9995	0.0004				
7	0.9988	0.0008	0.9971	0.0006	0.9971	0.0006	0.9960	0.0007
8			1.0024	0.0009	1.0012	0.0010	1.0008	0.0012
9					0.9990	0.0007		
10					1.0034	0.0007	1.0022	0.0010
11			1.0036	0.0015	1.0033	0.0020	1.0016	0.0017
12					1.0067	0.0028		
13	0.9965	0.0014	1.0012	0.0003	1.0023	0.0011	1.0008	0.0005
14					1.0008	0.0007		
15	1.0042	0.0035						
16							1.0079	0.0028
17	0.9993	0.0009	0.9972	0.0005	1.0019	0.0015	0.9985	0.0010
18	1.0025	0.0011	1.0016	0.0008	1.0000	0.0012	0.9989	0.0009
19	0.9991	0.0031	0.9996	0.0004	0.9999	0.0008		
20	1.0017	0.0009	0.9999	0.0008	1.0003	0.0016	0.9991	0.0011
21	1.0000	0.0007						
22			0.9997	0.0006				
23	0.9986	0.0006			0.9977	0.0008		
24	1.0003	0.0006	0.9984	0.0004	0.9989	0.0007	0.9977	0.0007
25							0.9989	0.0006
26							1.0010	0.0008
27							0.9990	0.0006

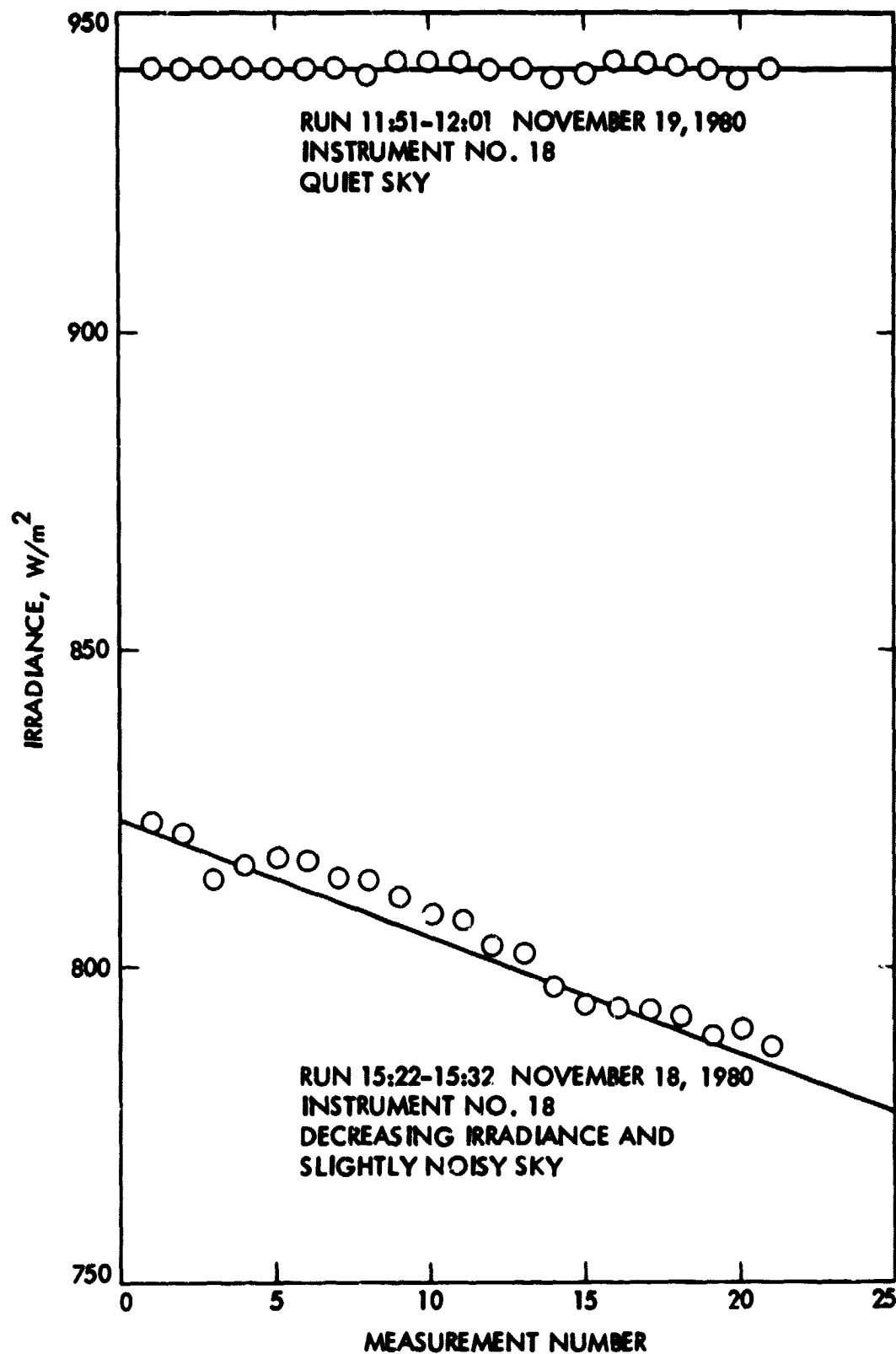


Figure 6-1. Examples of Sky Noise

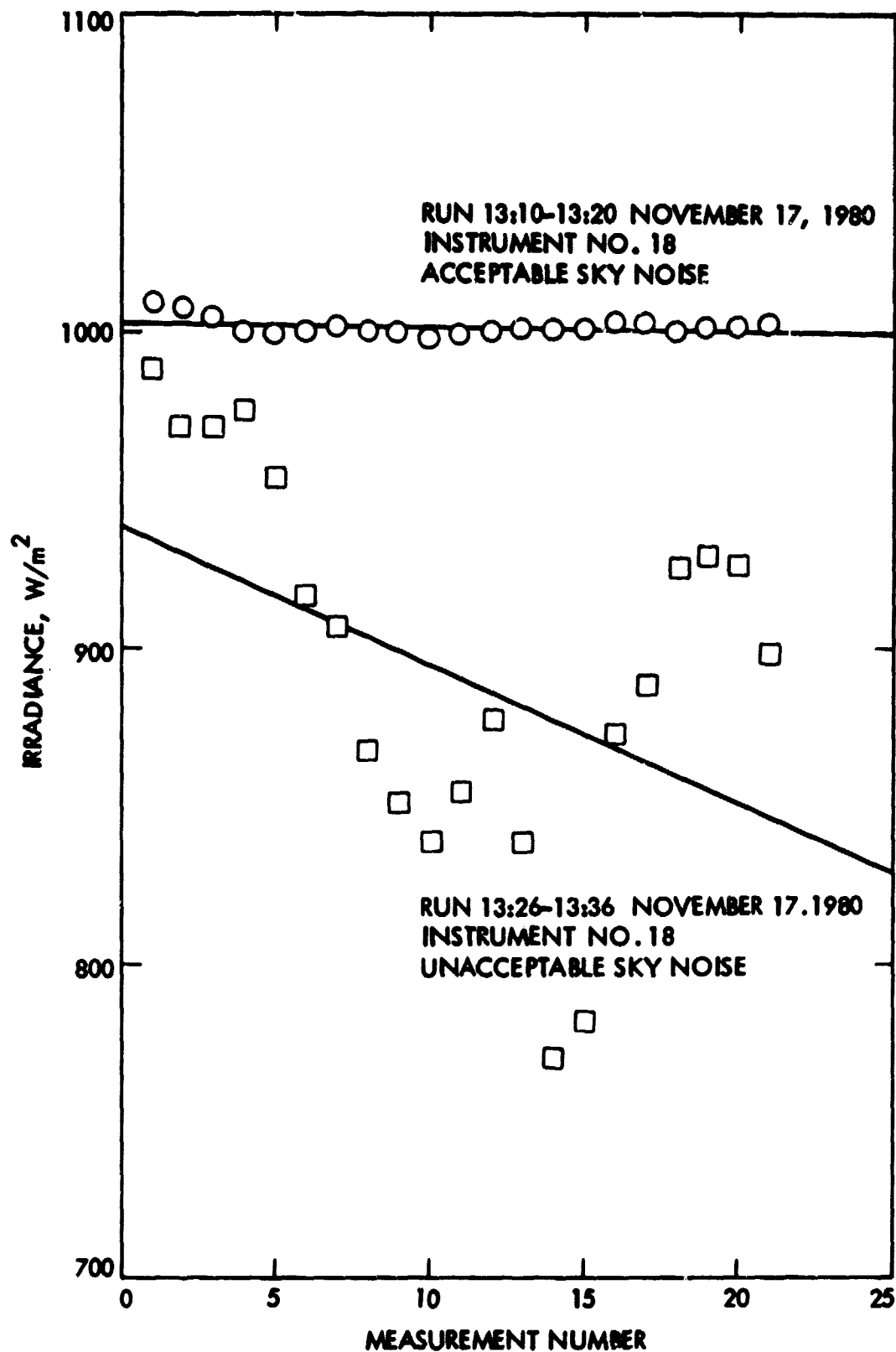


Figure 6-2. Effect of Thin Cirrus Clouds

Tables 5-1 to 5-4 summarize each of the comparisons and demonstrate the dispersion between instruments as measured by the spread of final rank values assigned to each instrument averaged over the results of each comparison. The results are as follows.

<u>Intercomparison</u>	<u>Standard Deviation</u>
1st	0.0023
2nd	0.0020
3rd	0.0032
4th	0.0027

## 6.2 LONG TERM DRIFT

Six instruments were used in all four comparisons and provided data to investigate long term drift. Using values drawn from Table 6-1, regression lines have been formed from rank values versus elapsed time between intercomparisons. The slopes range from -0.180 to +0.156 percentage points per year with a mean value of -0.04 percent per year. This is a computer result and is correctly interpreted as "no measurable long term drift."

## 6.3 SYSTEMATIC VARIATIONS

Although the pyrheliometers all measure solar irradiance in  $W/m^2$  at the Earth surface, there is no accepted standard source for calibration, and there is no single prototype instrument whose calibration is accepted world-wide or even country-wide. The dilemma is solved by designing each instrument to facilitate the substitution of highly precise electrical measurements for the radiation measurements for which no direct precision standards exist. Consequently, each type of instrument and each individual instrument has a scaling factor,  $C_f$ , which relates the two kinds of measured power by the equation:

$$C_f = \frac{\text{radiant power}}{\text{electrical power}}$$

The scaling factor,  $C_f$ , is composed of two components and corresponds to:

$$C_f = \frac{1}{A} \cdot C$$

where:

A = Aperture area

C = Correction factor determined by characterization



Each instrument designer considers all possible sources of systematic error and reduces these to negligible amounts, such that the C for the completely assembled and adjusted instrument comes as close to unity as possible. During manufacture of an instrument, the important physical characteristics are closely controlled and measured. Using these techniques, a value of  $C_f$  is determined and supplied with the instrument by the vendor. Furthermore, each manufacturer maintains a consistent product by maintaining one or more cavity pyrheliometers as house standards for quality tests of newly manufactured instruments.

In view of the manner in which the various instruments are calibrated, any difference between manufacturers is of interest. Using numbers from Table 6-1 to form rank values, the following results were obtained.

	<u>Comparison III</u>	<u>Comparison IV</u>
H-F	$1.0004 \pm 0.0024$	$1.0001 \pm 0.0024$
MK VI	$1.0005 \pm 0.0019$	$1.0003 \pm 0.0029$

Notice that the calibration of the two groups of instruments agree within 1 or 2 hundredths of a percent.

Two possible contributions to systematic error are particularly important. The first relates to interim storage. Precision standard instruments should be kept in a closed cabinet which is dust free and controlled at normal values of temperature and humidity. This avoids any drift in the calibration factor,  $C_f$ .

The second concern relates to the accuracy of the panel meter display. Each instrument compares radiant power with electrical power, the latter being expressed as  $E^2/R$ . This means that each instrument must be adequately calibrated in voltage and resistance (and amplifier gain) at the temperature which the control instrument reaches in the field.

## SECTION 7

### APPLICATIONS

This report serves two purposes: to characterize in detail and in general the quality of precision cavity pyrheliometers and to suggest procedures by which the quality of a particular instrument can be appraised.

If a precision cavity pyrheliometer is carefully maintained to preserve its original calibration, one can expect its tolerances to be similar to those of the instruments described in this report. Specifically, the intercomparisons have demonstrated that this type of instrument can be relied on to represent the World Radiation Reference Scale with an uncertainty no greater than 0.25 percent.

Traceability of calibration of a user's pyrheliometer is accomplished by direct comparison with any one of the following:

- (1) A reference instrument which has participated in an intercomparison at Davos, Switzerland.
- (2) A reference instrument which has participated in one of the New River intercomparisons described in this report.
- (3) An intercomparison with TMI/Kendall 67502, control number 18. This instrument has been intercompared at Davos and at New River and is the primary reference standard of the National Oceanic and Atmospheric Administration (NOAA) Solar Radiation Facility at Boulder, CO.

The NOAA reference instrument, control number 18, holds a unique position in the solar energy community because it is the official instrument controlling the national network associated with the weather service. As shown in Table 6-1, the rank of this instrument relative to the mean of all is 1.0025, 1.0016, 1.0000, and 0.9989; the average is 1.0008.

A user performing an intercomparison of his instrument with one of the standards just mentioned should approximate the procedure described in Section 4, giving particular attention to the need for a quiet sky, precise tracking, and the calibration of the digital panel meter under the field conditions prevailing at the time. The rank of the reference instrument used relative to the peer group mean or to the NOAA standard can be obtained from Table 6-1.

APPENDIX

INTERCOMPARISON RAW DATA

First Intercomparison - November 2-3, 1978

DATE 071581

TABLE 1-1

FIRST INTERCOMPARISON - NOVEMBER 2, 1978  
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																23	24
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1	10:55:00	915.0	911.9	906.2	914.1	912.9	908.0	920.2	912.0	916.0	914.5	915.0	914.0	911.0	911.0	914.0	911.0	911.0	914.0
2	10:55:30	913.1	909.0	904.6	910.6	910.4	918.0	916.9	909.0	914.0	910.5	911.0	911.0	909.0	909.0	911.0	909.0	911.0	911.0
3	10:56:00	915.0	911.9	907.1	914.1	912.1	918.0	919.2	911.0	916.0	914.5	913.0	913.0	911.0	911.0	913.0	911.0	913.0	913.0
4	10:56:30	914.0	912.3	907.1	914.1	911.2	917.0	917.5	911.0	915.0	913.5	914.0	913.0	910.0	910.0	913.0	910.0	913.0	913.0
5	10:57:00	914.0	911.7	907.9	914.1	912.1	913.0	916.5	912.0	915.0	912.5	915.0	913.0	911.0	911.0	913.0	911.0	913.0	913.0
6	10:57:30	913.1	909.7	906.2	912.3	911.2	910.0	916.9	909.0	914.0	911.5	913.0	911.0	909.0	909.0	912.0	909.0	912.0	912.0
7	10:58:00	917.0	913.8	909.5	915.8	913.8	912.0	918.2	913.0	918.0	916.5	916.0	915.0	913.0	913.0	915.0	913.0	915.0	915.0
8	10:58:30	919.9	907.7	913.6	920.1	918.0	912.0	923.4	916.0	920.0	915.5	920.0	916.0	916.0	916.0	918.0	916.0	918.0	918.0
9	10:59:00	920.9	919.2	912.7	920.1	917.2	912.0	922.5	917.0	922.0	920.5	920.0	919.0	916.0	916.0	919.0	916.0	919.0	919.0
10	10:59:30	915.0	912.4	905.4	912.3	909.5	913.5	913.6	910.0	914.0	913.0	913.0	911.0	911.0	911.0	912.0	910.0	912.0	912.0
11	11:00:00	915.0	913.9	908.7	914.9	912.9	911.5	917.9	912.0	916.0	914.5	916.0	914.0	914.0	914.0	916.0	914.0	916.0	916.0
12	11:00:30	919.0	916.3	912.7	918.4	916.3	914.0	920.2	915.0	919.0	918.5	918.0	917.0	917.0	917.0	918.0	914.0	917.0	917.0
13	11:01:00	922.9	919.1	916.0	921.9	918.9	917.0	924.8	918.0	922.0	919.5	920.0	917.0	917.0	917.0	919.0	914.0	917.0	917.0
14	11:01:30	924.9	922.1	917.6	923.6	922.3	917.0	926.7	920.0	925.0	922.5	922.0	922.0	922.0	922.0	922.0	920.0	922.0	922.0
15	11:02:00	925.8	923.2	919.2	925.4	923.9	913.0	928.4	923.0	926.0	923.5	923.0	923.0	923.0	923.0	923.0	921.0	923.0	923.0
16	11:02:30	925.8	924.1	919.2	925.4	923.9	913.0	928.4	923.0	926.0	923.5	923.0	923.0	923.0	923.0	923.0	921.0	923.0	923.0
17	11:03:00	927.8	924.1	920.9	927.1	923.9	916.0	930.3	923.0	927.0	924.5	926.0	925.0	925.0	925.0	925.0	922.0	925.0	925.0
18	11:03:30	925.8	922.4	916.8	922.8	920.6	918.0	925.7	921.0	925.0	923.0	923.0	922.0	922.0	922.0	923.0	920.0	923.0	923.0
19	11:04:00	926.8	923.2	920.9	926.2	923.9	921.0	929.7	923.0	926.0	924.5	926.0	924.0	924.0	924.0	926.0	921.0	924.0	924.0
20	11:04:30	929.8	926.6	920.1	927.1	924.8	922.0	928.0	925.0	930.0	927.5	928.0	927.0	927.0	927.0	928.0	924.0	927.0	927.0
21	11:05:00	924.9	921.9	916.8	922.8	920.6	923.0	923.1	920.0	924.0	920.0	922.0	922.0	922.0	922.0	922.0	919.0	922.0	922.0
1	1.0020	.9986	.9997	.9943	1.0076	.9987	1.0031	1.0014	1.0020	1.0009	.9976	1.0009	.9976	1.0009	.9976	1.0009	.9976	1.0009	1.0009
2	1.0019	.9975	.9990	1.0074	1.0061	.9975	1.0030	.9991	.9997	.9997	.9975	.9997	.9997	.9997	.9975	.9997	.9975	.9997	.9997
3	1.0017	.9983	.9985	1.0049	1.0062	.9973	1.0027	1.0011	.9995	.9995	.9973	.9995	.9995	.9973	.9995	.9995	.9973	.9995	.9995
4	1.0011	.9992	.9980	1.0043	1.0049	.9978	1.0021	1.0005	1.0010	.9999	.9967	.9999	.9999	.9967	.9999	.9999	.9967	.9999	.9999
5	1.0012	.9987	.9991	1.0001	1.0040	.9990	1.0023	.9995	1.0023	1.0001	.9979	1.0001	.9999	.9979	1.0001	.9999	.9979	1.0001	1.0001
6	1.0019	.9982	.9998	.9985	1.0061	.9974	1.0029	1.0002	1.0018	.9996	.9974	1.0007	.9996	.9974	1.0007	.9996	.9974	1.0007	1.0007
7	1.0024	.9990	.9990	.9970	1.0038	.9981	1.0035	1.0019	1.0014	1.0003	.9981	1.0003	.9981	.9981	1.0003	.9981	.9981	1.0003	1.0003
8	1.0032	.9998	1.0011	.9945	1.0070	.9989	1.0033	.9983	1.0033	1.0011	.9989	1.0011	.9989	1.0011	.9989	1.0011	.9989	1.0011	1.0011
9	1.0027	1.0008	.9987	.9930	1.0044	.9984	1.0039	1.0022	1.0017	1.0006	.9973	1.0006	.9973	1.0006	.9973	1.0006	.9973	1.0006	1.0006
10	1.0036	1.0007	.9975	1.0019	1.0020	.9981	1.0025	1.0014	1.0014	.9992	.9981	1.0004	.9992	.9981	1.0004	.9992	.9981	1.0004	1.0004
11	1.0015	1.0003	.9992	.9976	1.0046	.9982	1.0026	1.0009	1.0026	1.0004	.9971	1.0004	.9971	.9993	.9971	.9993	.9971	.9993	.9993
12	1.0023	.9994	.9994	.9969	1.0037	.9980	1.0024	1.0018	1.0013	1.0002	.9969	1.0002	.9969	.9971	.9969	1.0002	.9971	.9969	1.0002
13	1.0035	.9993	.9993	.9959	1.0024	.9981	1.0025	.9996	1.0003	.9992	.9979	1.0003	.9992	.9979	1.0003	.9992	.9979	1.0003	1.0003
14	1.0031	1.0001	1.0003	.9946	1.0051	.9979	1.0033	1.0006	1.0000	1.0000	.9979	1.0000	1.0000	.9979	1.0000	1.0000	.9979	1.0000	1.0000
15	1.0036	1.0007	.9964	.9875	1.0052	.9983	1.0037	1.0010	1.0005	1.0005	.9983	1.0005	.9983	.9983	1.0005	.9983	.9983	1.0005	1.0005
16	1.0025	1.0006	.9953	.9885	1.0052	.9994	1.0026	1.0021	1.0015	1.0015	.9972	1.0015	.9972	.9972	1.0015	.9972	.9972	1.0015	1.0015
17	1.0036	.9996	.9961	.9908	1.0028	.9994	1.0027	1.0000	1.0017	1.0006	.9973	1.0006	.9973	.9973	1.0006	.9973	.9973	1.0006	1.0006
18	1.0041	1.0003	.9943	.9956	1.0008	.9984	1.0032	1.0010	1.0010	.9999	.9977	1.0010	.9999	.9977	1.0010	.9999	.9977	1.0010	1.0010
19	1.0028	.9988	.9963	.9964	1.0021	.9996	1.0018	1.0002	1.0018	.9997	.9964	1.0018	.9997	.9964	1.0018	.9997	.9964	1.0018	.9997
20	1.0039	1.0004	.9934	.9955	1.0020	.9985	1.0041	1.0014	1.0009	1.0009	.9976	1.0009	.9976	.9976	1.0009	.9976	.9976	1.0009	1.0009
21	1.0036	1.0003	.9948	1.0013	1.0017	.9989	1.0026	.9983	1.0005	1.0005	.9972	1.0005	.9972	.9972	1.0005	.9972	.9972	1.0005	1.0005
MEAN	1.0027	.9991	.9992	.9970	1.0048	.9993	1.0029	1.0006	1.0002	1.0002	.9975	1.0002	.9975	.9975	1.0002	.9975	.9975	1.0002	1.0002
S.D.	.0009	.0023	.0009	.0051	.0016	.0005	.0006	.0011	.0010	.0005	.0006	.0010	.0005	.0006	.0005	.0006	.0005	.0006	.0005

MEAN	S.D.
913.20	3.399
911.29	3.385
913.49	3.058
913.05	2.718
912.92	2.090
911.35	2.577
914.75	2.425
917.02	4.005
918.44	3.153
911.77	2.645
913.66	2.312
916.81	2.213
919.72	2.464
921.98	2.699
922.55	3.977
923.58	3.790
924.47	3.455
922.08	2.853
924.30	2.505
926.20	2.795
921.58	2.124

TABLE 1-2

FIRST INTERCOMPARISON - NOVEMBER 2, 1978  
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	12:16:00	921.1	921.9	918.9	922.3	922.3	919.0	913.0	929.2	916.0	926.0	918.4	922.0	921.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2	12:16:30	930.9	931.5	927.9	932.7	932.7	929.9	927.0	938.3	931.0	936.0	930.3	932.0	931.0	929.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0
3	12:17:00	938.8	939.2	935.2	940.5	940.5	939.2	935.0	946.1	939.0	944.0	938.7	940.0	939.0	938.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	
4	12:17:30	939.6	940.4	935.2	941.4	941.4	938.4	936.0	945.4	940.0	945.0	940.8	941.0	939.0	938.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	
5	12:18:00	942.7	943.6	937.6	942.2	942.2	941.8	939.0	948.4	944.0	946.0	941.7	945.0	942.0	941.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	
6	12:18:30	945.7	946.6	939.3	943.6	943.6	942.3	940.0	950.0	944.0	947.0	941.7	946.0	944.0	943.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	
7	12:19:00	945.7	946.6	938.4	944.9	944.9	941.8	940.0	950.6	944.0	948.0	942.4	945.0	943.0	942.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	
8	12:19:30	945.7	946.6	938.4	944.9	944.9	941.8	940.0	950.6	944.0	948.0	942.4	945.0	943.0	942.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	
9	12:20:00	944.7	945.2	940.1	945.7	945.7	942.6	940.0	951.9	944.0	949.0	944.3	945.0	943.0	942.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	
10	12:20:30	938.8	939.7	932.7	937.9	937.9	935.8	940.0	943.2	938.0	942.0	937.5	938.0	936.0	936.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	
11	12:21:00	924.1	924.6	914.8	920.5	920.5	917.2	939.0	923.2	922.0	926.0	921.9	922.0	919.0	920.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	
12	12:21:30	925.0	921.7	918.9	923.1	923.1	920.6	939.5	928.2	922.0	925.0	921.8	923.0	920.0	919.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	
13	12:22:00	929.9	930.0	926.2	931.0	931.0	928.2	933.0	933.1	930.0	933.0	930.3	931.0	927.0	928.0	928.0	928.0	928.0	928.0	928.0	928.0	928.0	928.0	928.0	928.0	
14	12:22:30	933.9	932.3	926.2	925.7	925.7	923.0	917.0	934.4	931.0	935.0	931.6	932.0	929.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	
15	12:23:00	929.0	927.3	922.0	925.7	925.7	923.1	925.0	928.5	926.0	930.0	927.6	927.0	924.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	
16	12:23:30	929.0	928.0	921.4	925.7	925.7	923.1	925.0	927.5	922.0	927.0	923.5	924.0	920.0	921.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	
17	12:24:00	927.0	924.5	920.6	924.9	924.9	922.3	927.0	927.5	922.0	927.0	923.5	924.0	920.0	921.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	922.0	
18	12:24:30	929.0	927.1	921.4	925.7	925.7	923.1	921.0	926.9	924.0	930.0	925.9	925.0	923.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	
19	12:25:00	929.0	926.9	920.6	924.9	924.9	922.3	922.0	925.9	924.0	930.0	925.6	924.0	922.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	
20	12:25:30	927.0	926.2	918.9	924.0	924.0	922.3	919.0	923.9	924.0	926.0	924.9	924.0	922.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	923.0	
21	12:26:00	924.1	924.4	917.3	923.1	923.1	920.6	920.0	922.6	922.0	926.0	922.7	922.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	
1		1.0005	1.0014	.9981	1.0018	1.0018	.9982	.9917	1.0093	.9950	1.0058	.9976	1.0015	1.0004	.9993	.9993	.9993	.9993	.9993	.9993	.9993	.9993	.9993	.9993	.9993	.9993
2		.9997	1.0003	.9964	1.0016	1.0016	.9985	.9954	1.0076	.9997	1.0051	.9990	1.0008	.9997	.9976	.9976	.9976	.9976	.9976	.9976	.9976	.9976	.9976	.9976	.9976	
3		.9994	.9998	.9955	1.0012	1.0012	.9988	.9953	1.0071	.9996	1.0049	.9992	1.0006	.9996	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	
4		1.0000	1.0006	.9951	1.0017	1.0017	.9985	.9959	1.0059	1.0002	1.0034	1.0010	1.0013	.9991	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	
5		1.0001	1.0010	.9947	.9995	.9995	.9991	.9961	1.0061	1.0014	1.0036	.9990	1.0025	.9993	.9983	.9983	.9983	.9983	.9983	.9983	.9983	.9983	.9983	.9983	.9983	
6		1.0021	.9998	.9952	1.0003	1.0003	.9985	.9960	1.0066	1.0003	1.0034	.9978	1.0024	1.0003	.9992	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	
7		1.0021	.9998	.9944	1.0012	1.0012	.9979	.9960	1.0073	1.0003	1.0045	.9986	1.0013	.9992	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	.9981	
8		1.0024	1.0012	.9947	1.0006	1.0006	.9973	.9953	1.0062	.9995	1.0059	1.0002	1.0006	.9984	.9975	.9965	.9965	.9965	.9965	.9965	.9965	.9965	.9965	.9965	.9965	
9		1.0004	1.0009	.9955	1.0015	1.0015	.9982	.9954	1.0080	.9997	1.0050	1.0000	1.0007	.9986	.9975	.9965	.9965	.9965	.9965	.9965	.9965	.9965	.9965	.9965	.9965	
10		1.0008	1.0018	.9944	.9998	.9998	.9976	1.0021	1.0055	.9999	1.0042	.9994	.9999	.9978	.9978	.9978	.9978	.9978	.9978	.9978	.9978	.9978	.9978	.9978	.9978	
11		1.0017	1.0023	.9917	.9978	.9978	.9942	1.0179	1.0007	.9994	1.0038	.9993	.9994	.9962	.9973	.9963	.9963	.9963	.9963	.9963	.9963	.9963	.9963	.9963	.9963	
12		1.0017	.9981	.9951	.9997	.9997	.9969	1.0174	1.0052	.9985	1.0017	.9982	.9995	.9963	.9952	.9952	.9952	.9952	.9952	.9952	.9952	.9952	.9952	.9952	.9952	
13		1.0041	1.0024	.9958	1.0012	1.0012	.9988	1.0034	1.0046	1.0002	1.0034	1.0005	1.0012	.9969	.9969	.9969	.9969	.9969	.9969	.9969	.9969	.9969	.9969	.9969	.9969	
14		1.0039	1.0021	.9966	1.0004	1.0004	.9985	.9910	1.0034	1.0007	1.0050	1.0016	1.0020	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	.9985	
15		1.0033	1.0022	.9950	.9997	.9997	.9969	.9990	1.0017	1.0001	1.0044	1.0018	1.0011	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	
16		1.0035	1.0008	.9965	1.0012	1.0012	.9984	1.0035	1.0040	.9980	1.0035	.9997	1.0002	.9959	.9970	.9970	.9970	.9970	.9970	.9970	.9970	.9970	.9970	.9970	.9970	
17		1.0044	1.0023	.9961	1.0008	1.0008	.9980	.9958	1.0021	.9990	1.0055	1.0010	1.0001	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	
18		1.0047	1.0023	.9961	1.0008	1.0008	.9980	.9958	1.0021	.9990	1.0055	1.0010	1.0001	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	.9979	
19		1.0047	1.0024	.9956	1.0003	1.0003	.9983	.9971	1.0014	.9993	1.0058	1.0010	.9993	.9971	.9982	.9982	.9982	.9982	.9982	.9982	.9982	.9982	.9982	.9982	.9982	
20		1.0047	1.0029	.9956	1.0005	1.0005	.9987	.9951	1.0004	1.0005	1.0049	1.0015	1.0005	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	
21		1.0030	1.0029	.9950	1.0005	1.0005	.9987	.9951	1.0004	1.0005	1.0049	1.0015	1.0005	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	.9984	
22		1.0024	1.0028	.9951	1.0014	1.0014	.9987	.9980	1.0008	1.0002	1.0045															

MEAN	S. D.
920.63	3.921
931.25	2.962
939.41	2.882
939.81	2.618
942.65	2.723
943.75	2.812
943.75	3.085
943.47	3.138
944.32	3.177
938.05	2.663
922.52	5.575
923.42	5.302
929.84	2.299
930.10	4.466
925.35	3.231
925.94	2.396
923.80	2.599
924.93	2.673
924.64	2.662
923.52	2.632
921.84	2.233

TABLE 1-3

FIRST INTERCOMPARISON - NOVEMBER 2, 1978  
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														
		1	2	4	5	7	13	15	17	18	19	20	21	23	24	
1	12:35:00	929.5	930.9	928.4	931.2	929.1	928.0	934.4		932.0	932.0	933.0	930.0	930.0	930.0	
2	12:35:30	930.5		932.5	932.9	931.7	927.0	934.7	934.0	934.0	932.8	934.0	932.0	931.0	932.0	
3	12:36:00	930.5	931.2	931.7	932.0	930.0	928.0	932.4	933.0	932.0	932.4	933.0	931.0	930.0	931.0	
4	12:36:30	929.5	929.8	930.8	931.2	930.0	927.0	934.0	934.0	932.0	928.8	934.0	931.0	930.0	931.0	
5	12:37:00	929.5	929.5	930.0	930.3	928.3	927.0	931.7	933.0	932.0	930.8	933.0	931.0	930.0	931.0	
6	12:37:30	928.5	928.8	931.7	932.0	930.0	928.0	935.0	931.0	932.0	930.6	932.0	930.0	929.0	930.0	
7	12:38:00	929.5	931.4	932.5	932.9	930.8	930.0	936.0	933.0	933.0	933.6	933.0	932.0	931.0	932.0	
8	12:38:30	931.4	932.5	932.5	934.6	932.5	931.0	938.3	935.0	934.0	931.9	936.0	934.0	932.0	933.0	
9	12:39:00	932.4	932.7	932.5	934.6	933.4	932.0	938.9	936.0	935.0	933.6	937.0	935.0	933.0	934.0	
10	12:39:30	932.4	932.6	933.3	935.5	933.4	924.0	940.6	936.0	936.0	934.5	937.0	935.0	933.0	934.0	
11	12:40:00	927.5	926.0	924.3	926.8	924.9	919.0	932.1	928.0	928.0	928.3	929.0	927.0	926.0	927.0	
12	12:40:30	923.6	923.7	933.5	925.1	923.2	910.0	928.1	926.0	927.0	924.9	926.0	925.0	923.0	925.0	
13	12:41:00	922.4	922.7	925.1	926.8	924.9	915.0	930.1	922.0	926.0	925.6	926.0	925.0	918.0	918.0	
14	12:41:30	918.7	916.7	917.8	919.0	916.4	920.0	924.2	920.0	919.0	917.2	919.0	918.0	922.0	922.0	
15	12:42:00	922.4	921.0	921.9	924.2	922.3	926.0	927.8	924.0	924.0	922.5	924.0	923.0	922.0	922.0	
16	12:42:30	926.6	926.2	928.4	930.3	928.3	927.0	935.3	930.0	929.0	929.7	931.0	929.0	927.0	928.0	
17	12:43:00	929.5	928.9	928.4	931.2	929.1	924.0	935.0	921.0	932.0	931.0	932.0	930.0	929.0	930.0	
18	12:43:30	929.5	926.9	925.9	929.4	926.6	927.0	931.4	929.0	929.0	928.6	930.0	928.0	926.0	927.0	
19	12:44:00	931.4	929.0	930.8	932.9	930.0	925.0	937.3	931.0	931.0	930.0	932.0	931.0	929.0	930.0	
20	12:44:30	929.5	927.1	925.1	928.5	926.6	926.0	932.7	929.0	929.0	928.5	930.0	928.0	927.0	928.0	
21	12:45:00	930.5	928.2	928.4	931.2	928.3	926.0	935.3	929.0	931.0	928.9	931.0	930.0	928.0	929.0	
1		9988	1.0003	9976	1.0006	9983	9971	1.0040	1.0019	1.0014	1.0014	1.0025	9993	9993	9993	
2		9981		1.0003	1.0007	9994	9944	1.0026	1.0019	1.0019	1.0006	1.0019	9997	9987	9997	
3		9991	9999	1.0004	1.0008	9986	9965	1.0012	1.0018	1.0018	1.0012	1.0018	9997	9986	9997	
4		9984	9988	9995	1.0003	9990	9958	1.0033	1.0033	1.0033	1.0011	9977	1.0033	9990	1.0001	
5		9989	9989	9995	9998	9976	9962	1.0013	1.0027	1.0016	1.0003	1.0027	1.0005	9995	1.0005	
6		9977	9981	1.0011	1.0015	9993	9972	1.0047	1.0004	1.0015	1.0000	1.0015	9993	9983	9993	
7		9971	9992	1.0003	1.0008	9985	9977	1.0041	1.0009	1.0009	1.0015	1.0009	9998	9987	9998	
8		9978	9990	9989	1.0012	9990	9973	1.0052	1.0016	1.0006	9983	1.0027	1.0006	9984	9995	
9		9980	9983	9980	1.0003	9990	9975	1.0049	1.0018	1.0008	9993	1.0029	1.0008	9986	9997	
10		9982	9984	9991	1.0015	9993	9892	1.0070	1.0020	1.0020	1.0004	1.0031	1.0010	9988	9999	
11		1.0009	9992	9974	1.0001	9980	9917	1.0058	1.0014	1.0014	1.0017	1.0025	1.0003	9992	1.0003	
12		9989	9990	1.0097	1.0006	9985	9842	1.0038	1.0015	1.0026	1.0003	1.0015	9994	9994	1.0005	
13		9982	9983	1.0009	1.0027	1.0007	9900	1.0063	9975	1.0019	1.0014	1.0019	1.0008	9986	1.0008	
14		1.0000	9978	9990	1.0003	9975	1.0014	1.0060	1.0014	1.0003	9984	1.0003	9992	9992	9992	
15		9992	9974	9984	1.0009	9988	1.0028	1.0068	1.0007	1.0007	9990	1.0007	9996	9985	9985	
16		9976	9970	9994	1.0014	9993	9979	1.0068	1.0011	1.0000	1.0008	1.0022	1.0000	9979	9989	
17		1.0001	9995	9990	1.0020	9997	9942	1.0061	9910	1.0028	1.001C	1.0028	1.0007	9996	1.0007	
18		1.0014	9986	9976	1.0013	9983	9987	1.0035	1.0009	1.0009	1.0005	1.0020	9998	9977	9987	
19		1.0008	9981	1.0001	1.0023	9992	9938	1.0070	1.0003	1.0003	9992	1.0013	1.0003	9981	9992	
20		1.0014	9988	9967	1.0003	9983	9976	1.0048	1.0008	1.0008	1.0003	1.0019	9998	9987	9998	
21		1.0009	9985	9987	1.0017	9986	9961	1.0061	9993	1.0015	9992	1.0015	1.0004	9983	9993	
MEAN		9991	9987	9996	1.0010	9988	9956	1.0047	1.0006	1.0012	1.0002	1.0020	1.0000	9987	9997	
S.D.		.0013	.0008	.0076	.0008	.0007	.0042	.0017	.0026	.0007	.0012	.0008	.0005	.0085	.0006	



MEAN	S.D.
930.65	1.042
932.23	2.014
931.29	1.372
930.94	2.049
930.51	1.673
930.41	1.051
932.19	1.645
933.40	1.996
934.29	1.965
934.09	3.619
926.71	2.915
924.50	4.957
924.20	3.377
918.71	1.916
923.38	1.010
928.98	2.330
929.36	3.426
928.17	1.643
930.75	2.641
928.22	1.083
929.63	2.179

**RUN 4: TAM DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN  
FIRST INTERCOMPARISON - NOVEMBER 2, 1978**

**RUN 4:**

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											
		1	2	3	4	5	6	7	8	9	10	11	12
1	13:00:00	934.0	935.7	930.0	930.9	929.2	929.0	936.8	931.0	935.0	932.1	933.0	932.0
2	13:00:30	935.0	937.9	932.6	934.6	930.8	932.0	937.8	934.0	937.0	935.1	936.0	934.0
3	13:01:00	930.1	932.9	925.1	928.3	926.9	926.0	930.6	928.0	933.0	929.6	930.0	929.0
4	13:01:30	932.1	935.2	930.0	932.6	929.2	928.5	936.2	931.0	935.0	932.4	934.0	931.0
5	13:02:00	936.0	940.2	933.2	936.1	933.6	932.0	938.8	935.0	938.0	937.4	937.0	934.0
6	13:02:30	939.9	943.6	937.3	939.6	936.8	935.0	942.7	938.0	942.0	939.7	940.0	938.0
7	13:03:00	943.8	949.0	942.2	943.0	941.9	940.0	947.6	942.0	946.0	943.6	945.0	942.0
8	13:03:30	950.7	954.0	947.8	949.1	947.0	945.0	952.7	947.0	952.0	951.5	950.0	948.0
9	13:04:00	953.7	957.2	950.3	951.7	950.4	948.0	953.7	950.0	955.0	954.1	953.0	951.0
10	13:04:30	954.6	958.1	951.1	949.1	949.5	949.0	953.7	951.0	956.0	951.1	953.0	952.0
11	13:05:00	952.7	955.1	949.5	950.0	947.8	947.0	950.5	944.9	952.0	947.5	951.0	949.0
12	13:05:30	951.7	955.2	950.3	950.9	948.7	947.0	952.4	949.0	952.0	947.4	952.0	949.0
13	13:06:00	955.6	948.7	948.7	949.1	947.0	947.0	950.1	949.0	951.0	948.2	952.0	949.0
14	13:06:30	936.0	937.4	934.8	936.1	935.1	942.0	945.3	939.0	939.0	941.1	940.0	935.0
15	13:07:00	943.8	943.6	938.9	941.3	939.3	939.0	950.5	940.0	946.0	944.1	945.0	941.0
16	13:07:30	946.8	946.9	940.5	943.9	942.7	937.0	953.7	944.0	948.0	948.0	947.0	944.0
17	13:08:00	942.9	945.7	935.7	940.4	938.5	938.0	947.9	940.0	945.0	940.1	944.0	940.0
18	13:10:30	942.9	943.2	934.0	940.6	937.6	941.0	948.2	939.0	944.0	941.1	943.0	939.0
19	13:11:00	944.8	944.8	934.0	940.4	938.5	942.0	950.8	940.0	945.0	945.0	942.0	940.0
20	13:11:30	949.7	948.2	938.9	943.9	941.0	942.0	952.1	942.0	947.0	944.2	944.0	942.0
21	13:12:00	946.0	948.3	939.7	945.6	942.7	943.0	955.6	943.0	949.0	946.0	946.0	944.0
1	13:00:00	1.0018	1.0036	.9974	.9905	.9916	.9964	1.0048	.9986	1.0029	.9997	1.0007	.9996
2	13:00:30	1.0003	1.0034	.9975	.9996	.9958	.9971	1.0033	.9992	1.0024	1.0004	1.0013	.9996
3	13:01:00	1.0012	1.0042	.9958	.9993	.9956	.9968	1.0018	.9990	1.0043	1.0007	1.0011	.9992
4	13:01:30	.9999	1.0033	.9976	1.0005	.9968	.9961	1.0043	.9988	1.0031	1.0003	1.0020	1.0000
5	13:02:00	1.0001	1.0046	.9972	1.0003	.9974	.9959	1.0031	.9991	1.0023	1.0016	1.0012	.9991
6	13:02:30	1.0006	1.0045	.9978	1.0003	.9973	.9954	1.0036	.9986	1.0028	1.0004	1.0007	.9997
7	13:03:00	1.0001	1.0056	.9983	.9992	.9981	.9941	1.0041	.9982	1.0024	.9999	1.0014	.9992
8	13:03:30	1.0014	1.0048	.9983	.9997	.9975	.9953	1.0035	.9975	1.0027	1.0022	1.0006	.9996
9	13:04:00	1.0016	1.0053	.9980	.9995	.9982	.9956	1.0016	.9977	1.0030	1.0021	1.0009	.9998
10	13:04:30	1.0024	1.0060	.9987	.9966	.9970	.9965	1.0014	.9986	1.0038	.9987	1.0007	.9996
11	13:05:00	1.0031	1.0057	.9997	1.0003	.9980	.9971	1.0008	.9960	1.0024	.9977	1.0014	.9996
12	13:05:30	1.0014	1.0051	.9999	1.0005	.9982	.9964	1.0021	.9985	1.0017	.9968	1.0017	.9995
13	13:06:00	1.0063	.9994	.9989	.9994	.9972	.9972	1.0005	.9993	1.0014	.9985	1.0025	.9993
14	13:06:30	.9977	.9992	.9965	.9965	.9968	1.0041	1.0076	.9967	1.0009	1.0032	1.0020	.9967
15	13:07:00	1.0011	1.0006	.9959	.9984	.9963	.9960	1.0081	.9970	1.0034	1.0014	1.0023	.9981
16	13:07:30	1.0020	1.0021	.9954	.9990	.9977	.9917	1.0093	.9991	1.0033	.9956	1.0023	.9991
17	13:08:00	1.0014	1.0044	.9937	.9987	.9967	.9942	1.0067	.9983	1.0036	.9984	1.0026	.9994
18	13:08:30	1.0018	1.0022	.9924	.9992	.9962	.9998	1.0075	.9977	1.0030	.9999	1.0019	.9977
19	13:09:00	1.0027	1.0027	.9913	.9980	.9960	.9997	1.0091	.9976	1.0029	1.0029	.9997	.9976
20	13:09:30	1.0053	1.0036	.9938	.9991	.9960	.9991	1.0077	.9971	1.0024	.9994	.9992	.9971
21	13:10:00	1.0009	1.0025	.9934	.9996	.9965	.9965	1.0102	.9969	1.0032	1.0000	1.0000	.9979
MEAN		1.0016	1.0037	.9966	.9992	.9969	.9968	1.0048	.9980	1.0028	1.0000	1.0013	.9985
S. D.		.0018	.0017	.0024	.0010	.0008	.0024	.0031	.0012	.0008	.0020	.0010	.0009

MEAN	S. D.
932.34	2.366
934.74	2.079
928.97	2.467
932.15	2.290
935.86	2.298
939.33	2.334
943.72	2.426
949.42	2.325
952.14	2.407
952.37	2.621
949.71	2.697
950.40	2.179
949.67	2.272
948.13	3.195
2.81	3.206
4.07	4.066
941.58	3.338
941.17	3.305
942.24	3.086
944.77	3.662
945.98	3.955

TABLE 1-5

FIRST INTERCOMPARISON - NOVEMBER 2, 1970  
 RUN 5: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																23	24
		1	2	4	5	7	13	15	17	18	19	20	21						
1	13:53:00	924.8	932.2		926.9	930.1	927.0	928.0	934.0	924.1	931.0	930.0	930.0	931.0	930.0	931.0			
2	13:53:30	925.8	928.3		925.2	927.5	924.0	925.0	929.0	918.6	930.0	929.0	928.0	929.0	928.0	929.0			
3	13:54:00	918.9	926.8		922.6	924.2	921.0	923.0	927.0	920.3	926.0	924.0	924.0	924.0	924.0	926.0			
4	13:54:30	921.0	926.3	925.3	924.3	923.3	920.0	922.0	925.0	919.9	925.0	924.0	923.0	925.0	924.0	925.0			
5	13:55:00	923.8	930.7		922.1	924.2	922.0	924.0	926.0	921.3	929.0	926.0	924.0	926.0	924.0	927.0			
6	13:55:30	920.9	925.1	916.4	920.0	919.9	917.0	919.0	923.0	916.5	923.0	920.0	920.0	923.0	920.0	922.0			
7	13:56:00	922.8	928.0	918.8	923.5	923.3	919.0	921.0	924.0	917.1	926.0	923.0	921.0	923.0	921.0	923.0			
8	13:57:30	910.1	904.8	899.2	901.7	904.6	900.0	909.0	903.0	892.0	907.0	903.0	902.0	907.0	902.0	904.0			
9	13:58:00	911.1	913.0	905.8	910.4	911.4	907.0	911.0	912.0	906.5	913.0	910.0	909.0	913.0	910.0	911.0			
10	13:58:30	916.0	915.3	906.6	913.0	912.3	909.0	908.0	913.0	905.1	914.0	912.0	911.0	912.0	911.0	912.0			
11	13:59:00	911.1	912.6	903.3	909.6	908.0	906.0	910.0	910.0	902.0	911.0	908.0	908.0	911.0	908.0	910.0			
12	13:59:30	911.1	913.2	905.8	907.8	910.6	908.0	911.0	911.0	902.3	912.0	910.0	909.0	912.0	910.0	911.0			
13	14:00:00	914.0	914.0	905.8	913.0	910.6	909.0	914.0	913.0	910.5	914.0	911.0	910.0	911.0	910.0	912.0			
14	14:00:30	917.9	918.4	909.8	917.4	915.7	909.0	913.0	916.0	913.6	917.0	914.0	913.0	917.0	913.0	916.0			
15	14:02:00	917.9	917.4	908.2	927.8	912.3	912.0	913.0	915.0	911.9	917.0	924.0	912.0	915.0	912.0	915.0			
16	14:02:30	916.9	918.3	908.2	914.0	913.1	921.0	911.0	913.0	907.6	915.0	913.0	911.0	913.0	911.0	912.0			
17	14:03:00	917.9	914.3	909.8	913.9	915.7	910.0	913.0	915.0	913.3	917.0	915.0	913.0	917.0	913.0	915.0			
18	14:05:00	907.1	918.7	892.7	916.5	908.4	909.0	902.0	908.0	895.1	905.0	914.0	901.0	905.0	901.0	901.0			
19	14:05:30	909.1	906.5	899.2	904.3	904.6	912.0	903.0	906.0	898.5	906.0	904.0	903.0	906.0	903.0	905.0			
20	14:06:00	913.0	906.5	899.2	913.9	904.6		903.0	906.0	897.3	906.0	904.0	903.0	906.0	903.0	905.0			
21	14:06:30	915.0	909.0	900.9	916.5	908.0		906.0	909.0	903.2	910.0	906.0	906.0	906.0	906.0	908.0			
1		9954	1.0033		9976	1.0011	9978	9988	1.0053	9946	1.0021	1.0010	1.0010	1.0021	1.0010	1.0021			
2		9991	1.0018		9985	1.0010	9972	9983	1.0026	9914	1.0037	1.0026	1.0015	1.0026	1.0015	1.0026			
3		9949	1.0034		9989	1.0006	9971	9993	1.0036	9964	1.0025	1.0004	1.0004	1.0025	1.0004	1.0025			
4		9982	1.0031	1.0020	1.0009	9998	9963	9984	1.0017	9961	1.0017	1.0006	9995	1.0017	9995	1.0017			
5		9985	1.0060		9967	1.0019	9966	9988	1.0009	9958	1.0042	1.0009	9988	1.0020	9988	1.0019			
6		1.0007	1.0053		9958	9990	9965	9987	1.0030	9960	1.0030	1.0007	9995	1.0007	9995	1.0007			
7		1.0005	1.0061		9962	1.0012	9964	9985	1.0018	9943	1.0040	1.0007	9998	1.0007	9998	1.0007			
8		1.0077	1.0019		9957	9984	9966	1.0065	9999	9877	1.0043	9999	9988	1.0007	9988	1.0010			
9		1.0011	1.0032		9953	1.0003	9964	1.0010	1.0021	9961	1.0032	9999	9999	9999	9999	1.0010			
10		1.0031	1.0044		9948	1.0018	9974	9963	1.0018	9932	1.0029	1.0007	9996	1.0007	9996	1.0007			
11		1.0029	1.0046		9944	1.0013	9973	1.0017	1.0017	9929	1.0028	9995	9995	9995	9995	1.0017			
12		1.0018	1.0041		9960	9982	9984	1.0017	1.0017	9721	1.0028	1.0006	9995	1.0017	9995	1.0017			
13		1.0026	1.0026		9936	1.0015	9971	1.0026	1.0015	9988	1.0026	9993	9982	1.0006	9993	1.0006			
14		1.0027	1.0032		9939	1.0021	9930	1.0002	1.0004	9980	1.0017	9984	9973	1.0006	9973	1.0006			
15		1.0023	1.0017		9917	1.0131	9958	9969	9991	9957	1.0013	1.0111	9958	9991	9958	9991			
16		1.0038	1.0053		9943	1.0015	9966	9973	9995	9936	1.0017	9995	9995	9995	9973	9984			
17		1.0045	1.0006		9957	1.0001	9959	9992	1.0013	9995	1.0035	9970	9992	1.0013	9992	1.0013			
18		1.0026	1.0153		9966	1.0129	9951	9969	1.0046	9893	1.0002	1.0102	9958	9958	9958	9958			
19		1.0049	1.0020		9940	9995	9999	9961	1.0014	9931	1.0014	9992	9981	9992	9981	1.0003			
20		1.0087	1.0015		9935	1.0097	9994	9976	1.0010	9913	1.0010	9988	9976	9999	9976	9999			
21		1.0075	1.0010		9920	1.0092	9999	9977	1.0010	9946	1.0021	9977	9977	9977	9977	9999			
MEAN		1.0022	1.0030		9946	1.0023	9999	9977	1.0013	9943	1.0025	1.0008	1.0008	9987	1.0007	1.0007			
S.D.		.0037	.0031		.0030	.0047	.0017	.0031	.0020	.0030	.0011	.0035	.0035	.0015	.0016	.0016			

MEAN	S.D.
929.09	2.978
926.61	3.169
923.65	2.612
923.46	2.028
925.15	2.785
920.21	2.640
922.35	2.974
903.11	4.614
910.09	2.366
911.33	3.287
908.43	3.075
909.44	2.910
911.61	2.464
915.45	3.687
915.81	5.623
913.46	3.798
913.77	2.473
904.81	7.941
904.71	3.582
905.13	4.759
908.13	4.395

TABLE 1-6

FIRST INTERCOMPARISON - NOVEMBER 2, 1978  
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER										23	24
		1	2	3	4	5	6	7	8	9	10	11	
1	14:22:00	917.2	919.1	912.8	913.6	914.9	915.0	918.8	916.0	922.0	917.0	914.0	917.0
2	14:22:30	914.3	913.5	907.1	905.8	911.0	910.9	910.9	912.0	912.0	912.0	914.0	914.0
3	14:23:00	918.2	904.3	900.5	895.3	905.9	906.0	910.9	906.0	911.0	908.0	904.0	904.0
4	14:23:30	903.5	901.9	894.8	890.6	899.1	893.7	900.0	900.0	905.0	902.0	900.0	901.0
5	14:24:00	906.5	893.6	890.0	891.0	896.5	899.0	898.6	896.0	900.0	897.0	896.0	897.0
6	14:24:30	896.7	893.1	889.1	891.9	894.0	895.0	895.9	894.0	897.0	898.0	895.0	895.0
7	14:25:00	893.7	891.3	884.7	891.9	891.4	892.0	894.5	891.0	895.0	894.0	890.0	892.0
8	14:25:30	900.6	890.8	885.9	891.0	893.7	890.0	893.9	890.0	895.0	893.0	889.0	893.0
9	14:26:00	896.8	884.4	881.0	881.4	885.5	888.0	888.5	886.0	890.0	887.3	885.0	886.0
10	14:26:30	897.7	890.9	884.2	891.0	890.6	885.0	895.2	891.0	893.0	892.0	888.0	892.0
11	14:27:00	906.5	893.6	891.6	891.6	897.3	893.0	898.0	895.0	900.0	898.0	894.0	894.0
12	14:27:30	900.6	895.6	891.6	892.7	896.5	896.5	901.6	896.0	900.0	898.0	895.0	896.0
13	14:28:00	897.7	896.3	893.9	896.2	896.8	895.0	899.6	896.0	900.0	897.0	894.0	894.0
14	14:28:30	899.6	894.6	892.5	893.6	892.3	892.0	900.2	893.0	892.0	892.0	892.0	893.0
15	14:29:00	898.4	898.3	892.4	896.2	898.2	896.5	903.9	898.0	902.0	897.0	892.0	892.0
16	14:29:30	904.5	903.3	894.5	896.4	896.0	901.0	909.5	902.0	907.0	905.0	901.0	901.0
17	14:30:00	881.0	883.3	883.7	875.3	876.4	873.0	881.1	876.0	879.0	879.0	875.0	875.0
18	14:30:30	874.1	872.0	872.7	872.7	872.7	877.0	884.8	879.0	882.0	882.0	877.0	877.0
19	14:31:00	880.1	876.1	876.1	885.8	882.9	880.0	891.2	882.0	884.0	884.0	882.0	882.0
20	14:31:30	870.3	870.4	870.4	879.7	877.0	873.0	883.5	875.0	880.0	879.0	876.0	876.0
21	14:32:00	880.1	874.4	874.4	884.0	881.2	878.0	887.5	881.0	885.0	883.0	880.0	881.0
1	1:00:00	1.0006	1.0029	9960	9969	1.0005	9984	1.0025	9995	1.0040	1.0006	9995	1.0004
2	1:00:30	1.0035	1.0027	9956	9956	1.0008	9999	9999	1.0010	1.0045	1.0010	1.0010	1.0021
3	1:01:00	1.0043	1.0027	9968	9968	1.0008	1.0009	1.0043	1.0009	1.0045	1.0020	1.0020	1.0020
4	1:01:30	1.0030	1.0012	9934	9934	9998	9991	1.0027	9991	1.0047	9991	9991	1.0002
5	1:01:45	1.0014	9976	9939	9941	1.0003	1.0031	1.0026	9997	1.0042	1.0008	9997	1.0008
6	1:00:39	9999	9999	9955	9984	1.0009	1.0020	1.0030	1.0009	1.0043	1.0020	9998	1.0020
7	1:00:25	9999	9999	9966	1.0004	9999	1.0006	1.0034	9994	1.0039	1.0028	9993	1.0004
8	1:01:07	9997	9997	9942	9999	9985	9988	1.0032	9988	1.0044	9999	9977	9999
9	1:00:58	9985	9985	9967	9951	9998	1.0026	1.0032	1.0003	1.0048	1.0015	9992	1.0003
10	1:00:45	1.0009	9934	9934	1.0011	1.0006	9943	1.0058	1.0011	1.0033	9999	9977	9999
11	1:01:17	9971	9951	9951	1.0015	9997	9967	1.0052	9989	1.0045	1.0000	9977	1.0005
12	1:00:40	1.0002	9959	9959	9972	1.0015	9992	1.0072	1.0009	1.0054	1.0002	9998	1.0002
13	1:00:23	1.0008	9933	9933	1.0007	9991	9993	1.0045	1.0005	1.0049	1.0005	9993	1.0005
14	1:00:11	1.0011	9936	9936	1.0002	9998	9994	1.0076	9996	1.0046	1.0004	9996	1.0004
15	1:00:24	1.0011	9936	9936	1.0002	9998	9994	1.0076	9996	1.0046	1.0004	9996	1.0004
16	1:00:24	1.0011	9936	9936	1.0002	9998	9994	1.0076	9996	1.0046	1.0004	9996	1.0004
17	1:00:24	1.0011	9936	9936	1.0002	9998	9994	1.0076	9996	1.0046	1.0004	9996	1.0004
18	1:00:24	1.0011	9936	9936	1.0002	9998	9994	1.0076	9996	1.0046	1.0004	9996	1.0004
19	9967	9967	9967	9967	9967	9967	9967	9967	9967	9967	9967	9967	9967
20	9939	9939	9939	9939	9939	9939	9939	9939	9939	9939	9939	9939	9939
21	9990	9990	9990	9990	9990	9990	9990	9990	9990	9990	9990	9990	9990
MEAN		1.0044	1.0002	9941	9941	9996	9989	1.0054	1.0000	1.0048	1.0006	9989	1.0005
S.D.		.0051	.0016	.0011	.0011	.0033	.0022	.0024	.0009	.0008	.0010	.0011	.0008

MEAN	S.D.
916.48	2.950
911.08	4.078
905.22	7.376
900.80	2.407
896.26	5.021
893.12	5.227
891.50	2.707
891.05	3.972
885.71	3.765
890.06	4.019
895.97	4.666
895.20	5.479
895.59	3.293
893.39	4.076
897.67	3.409
902.32	4.127
875.13	4.162
877.50	4.171
882.95	3.823
875.66	4.134
880.91	3.482

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TABLE 1-7

FIRST INTERCOMPARISON - NOVEMBER 2, 1978  
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER-----																							
		1	2	4	5	7	13	15	17	18	19	20	21	23	24										
1	14:49:00	866.4	864.8	861.5	867.2	865.1	863.0	871.4	865.0	866.0	862.1	869.0	866.0	864.0	866.0										
2	14:49:30	864.5	865.1	859.1	865.4	866.2	862.0	870.4	865.0	867.0	863.6	868.0	865.0	864.0	866.0										
3	14:50:00	869.4	864.4	862.3	867.2	865.9	864.0	871.9	867.0	868.0	858.5	870.0	867.0	866.0	868.0										
4	14:50:30	875.3	868.4	865.6	869.8	870.2	867.0	874.9	871.0	871.0	857.2	874.0	870.0	868.0	870.0										
5	14:51:00	870.3	869.6	865.6	869.6	869.2	868.0	875.9	871.0	872.0	865.6	874.0	870.0	870.0	871.0										
6	14:51:30	873.3	869.2	865.6	868.0	870.2	868.0	876.9	870.0	873.0	859.9	872.0	870.0	869.0	871.0										
7	14:52:00	867.4	865.6	860.7	865.4	865.9	864.0	870.8	867.0	870.0	863.6	869.0	866.0	866.0	867.0										
8	14:52:30	860.5	852.2	849.3	850.6	852.4	851.0	858.4	854.0	857.0	848.6	856.0	854.0	854.0	855.0										
9	14:53:00	850.7	847.7	846.0	849.8	849.0	847.0	856.0	850.0	851.0	846.3	851.0	850.0	848.0	850.0										
10	14:53:30	851.7	848.2	846.0	850.6	850.7	849.0	857.7	852.0	852.0	841.3	853.0	852.0	850.0	852.0										
11	14:54:00	854.7	849.5	847.6	852.4	851.5	849.0	858.4	853.0	853.0	845.7	856.0	852.0	851.0	852.0										
12	14:54:30	855.6	851.2	848.5	852.4	852.4	851.0	856.7	855.0	855.0	841.7	858.0	853.0	852.0	854.0										
13	14:55:00	857.6	853.2	849.3	855.9	855.9	852.0	861.5	856.0	856.0	848.6	858.0	855.0	853.0	855.0										
14	14:55:30	857.6	854.8	850.1	857.6	855.8	854.0	863.6	857.0	858.0	857.4	860.0	856.0	855.0	856.0										
15	15:03:00	820.3	819.4	817.4	824.6	822.6	820.0	832.7	827.0	827.0	819.9	824.0	823.0	822.0	823.0										
16	15:03:30	829.1	829.6	826.4	831.5	831.1	819.0	838.0	831.0	836.0	828.9	833.0	831.0	830.0	831.0										
17	15:04:00	834.0	832.1	828.9	835.9	833.7	828.0	842.1	834.0	838.0	830.7	836.0	835.0	834.0	835.0										
18	15:04:30	830.0	833.7	828.9	837.6	834.5	831.0	844.9	835.0	839.0	835.3	836.0	836.0	835.0	836.0										
19	15:05:00	837.0	833.7	833.8	840.2	837.9	832.0	845.6	838.0	842.0	839.2	840.0	839.0	838.0	839.0										
20	15:05:30	837.0	837.1	829.7	838.5	835.4	835.0	842.1	836.0	840.0	838.9	837.0	836.0	836.0	837.0										
21	15:06:00	833.1	834.5	827.2	835.0	832.8	833.5	840.4	834.0	835.0	837.6	834.0	833.0	832.0	834.0										
1		1.0010	.9991	.9954	1.0019	.9995	.9971	1.0068	.9994	1.0005	.9960	1.0040	1.0005	.9982	1.0005										
2		.9994	1.0002	.9932	1.0005	.9991	.9966	1.0063	1.0001	1.0024	.9984	1.0035	1.0001	.9989	1.0012										
3		1.0035	.9978	.9954	1.0010	.9995	.9973	1.0063	1.0008	1.0019	.9910	1.0042	1.0008	.9996	1.0008										
4		1.0067	.9988	.9956	1.0004	1.0009	.9972	1.0063	1.0018	1.0018	.9659	1.0052	1.0006	.9983	1.0006										
5		1.0002	.9993	.9947	1.0004	.9990	.9975	1.0065	1.0009	1.0021	.9947	1.0044	.9998	.9998	1.0008										
6		1.0041	.9994	.9953	.9980	1.0005	.9980	1.0083	1.0003	1.0038	.9887	1.0026	1.0003	.9992	1.0015										
7		1.0013	.9992	.9935	.9989	.9995	.9973	1.0052	1.0008	1.0043	.9969	1.0031	.9996	.9974	1.0008										
8		1.0079	.9981	.9947	.9963	.9984	.9967	1.0054	1.0006	1.0038	.9939	1.0026	1.0003	1.0003	1.0014										
9		1.0015	.9979	.9959	1.0004	.9995	.9971	1.0077	1.0006	1.0018	.9963	1.0018	1.0006	.9983	1.0006										
10		1.0015	.9974	.9948	1.0002	1.0003	.9983	1.0085	1.0018	1.0018	.9892	1.0030	1.0018	.9995	1.0008										
11		1.0033	.9973	.9951	1.0007	.9996	.9967	1.0077	1.0014	1.0014	.9928	1.0049	1.0002	.9998	1.0002										
12		1.0035	.9984	.9951	.9998	.9998	.9981	1.0048	1.0028	1.0028	.9872	1.0063	1.0005	.9993	1.0016										
13		1.0036	.9984	.9937	1.0015	.9994	.9969	1.0080	1.0016	1.0016	.9929	1.0039	1.0004	.9981	1.0004										
14		1.0031	.9979	.9924	1.0011	.9990	.9969	1.0081	1.0004	1.0016	1.0009	1.0039	.9993	.9981	.9993										
15		.9953	.9943	.9919	1.0006	.9981	1.0192	1.0104	.9974	1.0035	.9947	.9998	.9986	.9974	.9966										
16		.9985	.9990	.9952	1.0013	1.0008	.9363	1.0091	1.0007	1.0067	.9982	1.0031	1.0007	.9995	1.0007										
17		1.0000	.9977	.9938	1.0022	.9996	.9928	1.0097	1.0000	1.0048	.9960	1.0024	1.0000	1.0000	1.0012										
18		1.0026	.9975	.9917	1.0022	.9985	.9943	1.0109	.9991	1.0032	.9994	1.0003	1.0003	.9991	1.0003										
19		.9986	.9947	.9947	.9924	.9997	.9926	1.0069	.9998	1.0046	1.0012	1.0022	.9998	.9998	1.0010										
20		1.0002	1.0003	.9915	1.0020	.9983	.9978	1.0063	.9990	1.0038	1.0025	1.0002	.9990	.9990	1.0002										
21		.9989	1.0006	.9919	1.0012	.9986	.9994	1.0077	1.0000	1.0012	1.0043	1.0000	.9988	.9976	1.0000										
MEAN		1.0015	.9982	.9941	1.0006	.9994	.9973	1.0076	1.0004	1.0028	.9953	1.0029	1.0081	.9998	1.0006										
S.D.		.0029	.0016	.0014	.0015	.0008	.0053	.0017	.0012	.0015	.0050	.0018	.0007	.0008	.0008										



MEAN	S.D.
865.54	2.607
864.94	2.651
866.32	3.331
869.45	4.509
870.21	2.773
869.72	3.946
866.32	2.615
853.79	3.435
849.47	2.534
850.44	3.733
851.84	3.293
852.61	4.016
854.65	3.396
856.63	3.058
824.14	5.868
830.40	4.378
834.03	3.587
835.77	3.720
838.17	3.488
836.83	2.823
834.01	2.903

TABLE 1-8

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	10:14:00	907.3	906.9	904.5	906.4	904.5	909.1	905.0	907.0	905.9	906.0	906.0	906.0	906.0	906.0
2	10:14:30	906.4	905.6	906.1	907.2	904.5	909.7	905.0	906.0	906.0	906.0	908.0	906.0	906.0	906.0
3	10:15:00	907.3	905.4	907.7	909.0	906.2	913.4	907.0	908.0	904.8	909.0	908.0	907.0	908.0	908.0
4	10:15:30	911.3	910.7	907.7	909.8	907.9	913.4	909.0	910.0	908.3	911.0	910.0	909.0	910.0	910.0
5	10:16:00	910.3	911.2	909.3	910.7	908.8	914.1	909.0	911.0	910.8	911.0	910.0	909.0	910.0	910.0
6	10:16:30	912.3	911.8	910.9	910.7	909.6	917.1	911.0	912.0	908.6	913.0	911.0	911.0	912.0	912.0
7	10:17:00	913.3	913.1	910.1	912.4	909.6	917.1	910.0	912.0	912.6	912.0	912.0	911.0	912.0	912.0
8	10:17:30	914.3	912.7	911.7	913.3	910.5	917.1	911.0	913.0	913.3	913.0	913.0	912.0	912.0	912.0
9	10:18:00	915.3	913.6	909.3	913.3	910.5	916.1	912.0	914.0	911.9	914.0	913.0	912.0	913.0	913.0
10	10:18:30	913.3	914.7	910.9	915.1	912.1	918.4	913.0	915.0	913.6	915.0	913.0	913.0	914.0	914.0
11	10:19:00	912.3	916.6	912.5	915.9	913.0	920.4	914.0	915.0	915.0	916.0	914.0	913.0	915.0	915.0
12	10:19:30	915.3	914.1	910.9	914.2	911.3	920.4	912.0	914.0	913.0	914.0	913.0	912.0	913.0	913.0
13	10:20:00	913.3	911.8	908.5	914.4	909.6	917.7	910.0	913.0	912.1	912.0	911.0	911.0	912.0	912.0
14	10:20:30	912.3	911.6	907.7	911.6	909.6	915.8	910.0	912.0	911.9	912.0	911.0	911.0	912.0	912.0
15	10:21:00	912.3	913.9	908.5	911.6	909.6	916.1	910.0	912.0	908.9	912.0	911.0	910.0	910.0	910.0
16	10:21:30	914.3	914.1	910.1	914.2	911.3	919.7	911.0	913.0	911.7	913.0	912.0	912.0	913.0	913.0
17	10:22:00	912.3	914.2	909.3	913.3	910.5	919.7	911.0	913.0	911.2	913.0	912.0	912.0	913.0	913.0
18	10:22:30	913.3	916.0	910.1	914.2	911.3	921.7	912.0	914.0	910.0	914.0	913.0	913.0	913.0	913.0
19	10:23:00	914.3	916.2	911.7	915.1	912.1	918.4	913.0	915.0	914.3	915.0	914.0	913.0	915.0	915.0
20	10:23:30	912.3	917.7	911.7	915.9	913.8	921.4	913.0	916.0	912.9	915.0	914.0	914.0	915.0	915.0
21	10:24:00	915.3		910.9	916.8	914.7	923.7	914.0	916.0	914.5	916.0	915.0	914.0	916.0	916.0
1		1.0013	1.0008	.9981	1.0002	.9981	1.0032	.9987	1.0009	.9997	.9998	.9998	.9998	.9998	.9998
2		1.0000	.9992	.9997	1.0009	.9980	1.0037	.9985	.9985	.9996	1.0018	.9996	.9996	.9996	.9996
3		.9996	.9974	.9999	1.0014	.9983	1.0062	.9992	1.0002	.9967	1.0014	1.0003	.9992	.9992	1.0003
4		1.0016	1.0009	.9976	.9999	.9979	1.0039	.9991	1.0002	.9983	1.0013	1.0002	.9991	.9991	1.0002
5		.9999	1.0009	.9980	1.0003	.9982	1.0041	.9985	1.0007	1.0004	1.0007	.9996	.9985	.9985	.9996
6		1.0007	1.0002	.9992	.9990	.9978	1.0060	.9993	1.0004	.9967	1.0015	.9993	.9993	.9993	1.0004
7		1.0014	1.0012	.9979	1.0004	.9974	1.0056	.9978	1.0000	1.0006	1.0000	.9969	.9989	.9989	1.0000
8		1.0017	.9999	.9989	1.0006	.9975	1.0048	.9981	1.0003	1.0006	1.0003	.9992	.9992	.9992	.9992
9		1.0026	1.0007	.9960	1.0004	.9973	1.0035	.9990	1.0012	.9989	1.0012	1.0001	.9990	.9990	1.0001
10		.9993	1.0008	.9967	1.0013	.9980	1.0049	.9990	1.0012	.9996	1.0012	.9990	.9990	.9990	1.0001
11		.9971	1.0019	.9974	1.0011	.9979	1.0060	.9990	1.0001	1.0001	1.0012	.9990	.9990	.9990	1.0001
12		1.0018	1.0005	.9970	1.0006	.9975	1.0074	.9982	1.0004	.9993	1.0004	.9993	.9982	.9982	.9993
13		1.0015	.9999	.9963	1.0006	.9975	1.0064	.9979	1.0012	1.0002	1.0001	.9990	.9990	.9990	1.0001
14		1.0010	1.0002	.9959	1.0002	.9980	1.0048	.9984	1.0006	1.0005	1.0006	.9995	.9995	.9995	1.0006
15		1.0010	1.0028	.9968	1.0002	.9981	1.0052	.9985	1.0007	.9973	1.0007	.9996	.9985	.9985	1.0007
16		1.0014	1.0012	.9968	1.0013	.9981	1.0073	.9978	1.0000	.9985	1.0000	.9989	.9989	.9989	1.0000
17		.9997	1.0018	.9964	1.0008	.9977	1.0078	.9983	1.0005	.9985	1.0005	.9994	.9994	.9994	.9994
18		.9998	1.0027	.9963	1.0008	.9976	1.0090	.9984	1.0005	.9962	1.0005	.9994	.9994	.9994	.9994
19		.9999	1.0020	.9971	1.0008	.9975	1.0044	.9985	1.0007	.9999	1.0007	.9996	.9985	.9985	1.0007
20		.9972	1.0031	.9966	1.0012	.9989	1.0072	.9980	1.0013	.9979	1.0002	.9991	.9991	.9991	1.0002
21		.9997		.9949	1.0013	.9990	1.0069	.9983	1.0005	.9988	1.0005	.9994	.9994	.9994	1.0005
MEAN		1.0004	1.0009	.9974	1.0006	.9979	1.0057	.9985	1.0005	.9990	1.0007	.9994	.9994	.9994	1.0000
S.D.		.0014	.0013	.0013	.0006	.0005	.0017	.0005	.0004	.0014	.0006	.0004	.0004	.0004	.0005

MEAN	S.D.
906.20	1.241
906.34	1.328
907.76	2.105
909.85	1.559
910.40	1.394
911.62	2.008
912.01	1.938
912.76	1.654
912.92	1.831
913.93	1.821
914.90	2.118
913.63	2.391
911.88	2.220
911.42	1.845
911.38	2.086
913.83	2.382
912.58	2.496
913.51	2.974
914.39	1.765
914.82	2.576
915.57	2.970



MEAN	S.D.
916.10	2.361
916.68	3.156
916.13	2.876
916.72	2.771
918.29	2.920
923.17	2.534
924.60	2.041
924.58	2.280
924.46	2.609
923.66	2.360
922.85	2.150
922.77	2.129
921.58	2.086
922.61	2.647
923.17	2.000
923.15	2.174
921.33	2.337
922.95	2.125
926.19	2.265
925.83	2.367
925.09	1.750

TABLE 1-10

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
 RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER															23	24
		1	2	4	5	7	13	15	17	18	19	20	21					
1	11:37:00	951.5	947.6		950.3	948.6	946.0	943.3	948.0	952.0	951.2	951.0	950.0	949.0	950.0	950.0		
2	11:37:30	951.5	948.0		950.3	948.6	945.0	942.0	948.0	952.0	950.8	951.0	949.0	948.0	949.0	949.0		
3	11:38:00	951.5	949.5		950.3	947.7	945.0	942.3	948.0	951.0	950.0	951.0	949.0	948.0	949.0	949.0		
4	11:38:30	951.5	949.1		950.3	947.7	944.0	942.3	947.0	951.0	950.2	950.0	948.0	947.0	949.0	949.0		
5	11:39:00	946.6	949.0		950.3	947.7	944.5	942.7	948.0	950.0	947.8	951.0	949.0	948.0	949.0	949.0		
6	11:39:30		949.9		951.1	949.4	946.0	944.6	949.0	951.0	949.0	952.0	950.0	949.0	950.0	950.0		
7	11:40:00		949.9		952.0	948.6	946.0	945.0	950.0	950.0	948.3	953.0	950.0	949.0	950.0	950.0		
8	11:40:30	951.5	945.2		950.3	949.4	947.0	946.6	950.0	952.0	948.3	955.0	951.0	950.0	951.0	951.0		
9	11:41:00	947.6	947.4		952.9	951.1	947.0	947.2	951.0	954.0	952.8	954.0	952.0	951.0	952.0	952.0		
10	11:41:30	953.5	950.8		953.8	951.1		945.0	951.0	953.0	952.3	954.0	952.0	950.0	951.0	951.0		
11	11:42:00	954.5	951.7		952.9	952.8		949.2	952.0	954.0	952.2	955.0	953.0	952.0	953.0	953.0		
12	11:42:30	953.5	949.5		953.8	950.3	949.0	946.9	949.0	953.0	951.8	952.0	951.0	949.0	951.0	951.0		
13	11:43:00	957.4	951.5		952.9	952.8	946.0	945.9	951.0	955.0	953.6	954.0	953.0	952.0	953.0	953.0		
14	11:43:30	961.4	949.6		954.7	952.0	949.0	945.6	952.0	956.0	952.4	956.0	953.0	952.0	953.0	954.0		
15	11:44:00	961.4	950.3		954.7	952.0	949.0	943.0	952.0	955.0	952.0	956.0	953.0	952.0	953.0	954.0		
16	11:44:30	953.5	951.0		953.8	952.8	949.0	944.0	952.0	955.0	954.0	954.0	954.0	952.0	953.0	953.0		
17	11:45:00	956.4	959.1		953.8	951.1	949.0	943.0	951.0	954.0	951.6	955.0	952.0	951.0	951.0	951.0		
18	11:45:30	954.5	948.7		952.9	950.3	948.0	941.4	950.0	953.0	949.8	954.0	951.0	951.0	952.0	952.0		
19	11:46:00	952.5	949.7		952.9	951.1	947.0	943.3	950.0	953.0	952.3	953.0	951.0	950.0	951.0	951.0		
20	11:46:30	958.4	950.7		954.7	952.0	947.0	944.3	951.0	954.0	951.6	955.0	952.0	951.0	951.0	951.0		
21	11:47:00	952.5	952.9		955.5	952.8	948.0	945.3	952.0	955.0	954.0	956.0	953.0	952.0	953.0	954.0		
1		1.0025	.9984		1.0012	.9975	.9967	.9939	.9980	1.0030	1.0022	1.0020	1.0009	.9999	1.0009	1.0009		
2		1.0030	.9993		1.0017	.9999	.9961	.9929	.9993	1.0035	1.0022	1.0024	1.0003	.9993	1.0003	1.0003		
3		1.0030	1.0008		1.0017	.9989	.9961	.9933	.9993	1.0024	1.0022	1.0024	1.0003	.9993	1.0003	1.0003		
4		1.0034	1.0009		1.0022	.9994	.9955	.9937	.9987	1.0029	1.0021	1.0019	.9997	.9987	1.0008	1.0008		
5		.9985	1.0011		1.0025	.9997	.9963	.9944	1.0000	1.0021	.9998	1.0032	1.0011	1.0000	1.0011	1.0011		
6		1.0006	1.0006		1.0019	1.0001	.9965	.9950	.9997	1.0018	1.0005	1.0028	1.0007	.9997	1.0007	1.0007		
7		1.0010	1.0010		1.0032	.9996	.9969	.9995	1.0011	1.0011	.9909	1.0043	1.0011	1.0001	1.0011	1.0011		
8		.9952	.9952		1.0005	.9994	.9971	.9966	1.0002	1.0023	.9984	1.0055	1.0013	1.0002	1.0013	1.0013		
9		.9966	.9965		1.0022	1.0004	.9960	.9962	1.0002	1.0034	1.0021	1.0034	1.0013	1.0002	1.0013	1.0013		
10		1.0020	.9992		1.0024	.9995		.9931	.9994	1.0015	1.0008	1.0026	1.0005	.9984	1.0005	1.0005		
11		1.0022	.9993		1.0006	1.0005	.9955	.9967	.9997	1.0018	.9999	1.0028	1.0007	.9997	1.0007	1.0007		
12		1.0029	.9987		1.0032	.9995	.9982	.9959	.9982	1.0024	1.0011	1.0013	1.0003	.9982	1.0003	1.0003		
13		1.0055	.9993		1.0008	1.0007	.9935	.9934	.9988	1.0030	1.0015	1.0019	1.0009	.9988	1.0009	1.0009		
14		1.0089	.9965		1.0019	.9991	.9959	.9923	.9991	1.0033	.9995	1.0033	1.0001	.9991	1.0012	1.0012		
15		1.0092	.9976		1.0022	.9993	.9962	.9959	.9993	1.0025	1.0002	1.0035	1.0004	.9993	1.0004	1.0004		
16		1.0012	.9986		1.0016	1.0005	.9965	.9913	.9997	1.0028	1.0018	1.0039	1.0018	.9997	1.0007	1.0007		
17		1.0043	1.0071		1.0016	.9987	.9965	.9902	.9986	1.0018	.9993	1.0020	.9997	.9986	1.0007	1.0007		
18		1.0042	.9981		1.0025	.9998	.9974	.9904	.9955	1.0026	.9993	1.0037	1.0005	1.0005	1.0016	1.0016		
19		1.0020	.9991		1.0024	1.0005	.9962	.9923	.9994	1.0025	1.0018	1.0025	1.0004	.9994	1.0015	1.0015		
20		1.0068	.9987		1.0029	1.0001	.9949	.9920	.9991	1.0022	.9997	1.0033	1.0001	.9991	1.0012	1.0012		
21		.9999	1.0004		1.0031	1.0003	.9952	.9924	.9994	1.0026	1.0015	1.0036	1.0005	.9994	1.0015	1.0015		
MEAN		1.0031	.9994		1.0020	.9998	.9962	.9936	.9994	1.0025	1.0003	1.0030	1.0006	.9994	1.0009	1.0009		
S.D.		.0031	.0024		.0008	.0006	.0010	.0024	.0007	.0006	.0025	.0009	.0005	.0006	.0006	.0006		

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 OF POOR QUALITY

MEAN	S.D.
949.12	2.454
948.71	2.758
948.70	2.626
948.24	2.700
947.97	2.305
949.32	2.093
948.94	3.232
949.79	2.577
950.77	2.603
951.54	2.416
952.33	1.938
950.75	2.049
952.16	3.195
952.90	3.844
952.63	4.186
952.31	3.066
952.31	3.062
950.50	3.164
950.60	2.790
951.90	3.539
952.54	2.959

DATE 071501

TABLE 1-11

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														
		1	2	4	5	7	13	15	17	1A	19	20	21	23	24	
1	12:00:00	956.3	953.3		955.6	953.6	951.0		955.0	957.0	954.1	957.0	956.0	953.0	956.0	
2	12:00:30	954.4	953.9		954.7	952.8	950.0		954.0	957.0	956.5	957.0	955.0	954.0	956.0	
3	12:01:00	957.3	953.6		955.6	952.8	950.0		954.0	958.0	955.2	957.0	955.0	953.0	956.0	
4	12:01:30	952.4	954.6		956.6	953.6	950.0		954.0	958.0	956.7	957.0	955.0	953.0	957.0	
5	12:02:00	954.4	956.1		957.3	954.5	951.5		955.0	958.0	957.7	957.0	955.0	954.0	956.0	
6	12:02:30	952.4	958.3		957.3	954.2	952.0		956.0	960.0	957.7	958.0	956.0	955.0	958.0	
7	12:03:00	949.5	959.9		959.1	956.2	953.0		958.0	961.0	958.4	959.0	958.0	956.0	959.0	
8	12:03:30	953.4	958.8		959.1	957.0	953.0		957.0	960.0	959.7	958.0	957.0	956.0	958.0	
9	12:04:00	954.4	958.4		959.1	957.0	953.0		957.0	960.0	959.9	959.0	958.0	956.0	959.0	
10	12:04:30	957.3	960.1		959.9	957.9	954.5		959.0	961.0	960.6	960.0	959.0	957.0	960.0	
11	12:05:00	955.3	959.2		958.2	955.3	952.0		957.0	960.0	959.2	958.0	957.0	955.0	958.0	
12	12:05:30	953.4	958.0		958.2	956.2	952.0		957.0	960.0	957.7	959.0	957.0	955.0	958.0	
13	12:06:00	962.2	959.8		960.8	959.5	954.5		959.0	962.0	960.5	961.0	960.0	957.0	960.0	
14	12:06:30	959.3	958.3		960.8	958.7	955.0		959.0	962.0	958.7	961.0	960.0	958.0	961.0	
15	12:07:00	956.3	959.2		940.8	957.9	954.0		959.0	961.0	959.7	961.0	959.0	957.0	960.0	
16	12:07:30	957.3	959.1		959.9	957.0	954.0		958.0	960.0	960.2	960.0	958.0	957.0	959.0	
17	12:08:00	955.3	958.1		958.2	956.2	953.0		957.0	959.0	957.5	959.0	958.0	956.0	958.0	
18	12:08:30	952.4	955.2		956.5	955.3	952.0		956.0	958.0	958.1	958.0	957.0	955.0	957.0	
19	12:09:00	958.3	954.7		960.8	957.9	954.0		958.0	962.0	958.7	961.0	960.0	957.0	960.0	
20	12:09:30	964.2	958.2		959.1	957.0	953.0		958.0	960.0	959.1	960.0	959.0	957.0	960.0	
21	12:10:00	957.3	957.0													
1		1.0016	.9984		1.0008	.9987	.9960		1.0002	1.0023	.9992	1.0023	1.0012	.9981	1.0012	
2		.9998	.9993		1.0001	.9981	.9952		.9994	1.0025	1.0020	1.0025	1.0004	.9994	1.0015	
3		1.0026	.9988		1.0008	.9979	.9950		.9992	1.0034	1.0004	1.0023	1.0002	.9981	1.0013	
4		.9975	.9998		1.0018	.9987	.9950		.9991	1.0033	1.0020	1.0023	1.0002	.9981	1.0023	
5		.9988	1.0006		1.0018	.9989	.9958		.9994	1.0026	1.0023	1.0015	.9994	.9984	1.0005	
6		.9958	1.0020		1.0009	.9998	.9954		.9994	1.0038	1.0013	1.0017	.9996	.9985	1.0017	
7		.9919	1.0028		1.0019	.9989	.9956		1.0008	1.0039	1.0012	1.0018	1.0008	.9987	1.0018	
8		.9960	1.0016		1.0019	.9997	.9956		.9997	1.0029	1.0026	1.0008	.9997	.9987	1.0008	
9		.9967	1.0009		1.0016	.9994	.9952		.9994	1.0025	1.0024	1.0015	1.0005	.9984	1.0015	
10		.9964	1.0013		1.0011	.9990	.9955		1.0001	1.0022	1.0018	1.0012	1.0001	.9981	1.0012	
11		.9983	1.0023		1.0012	.9982	.9948		1.0000	1.0031	1.0023	1.0010	1.0000	.9979	1.0010	
12		.9964	1.0013		1.0015	.9994	.9950		1.0002	1.0034	1.0010	1.0023	1.0002	.9981	1.0013	
13		1.0026	1.0001		1.0012	.9998	.9946		.9993	1.0024	1.0008	1.0014	1.0003	.9972	1.0003	
14		1.0000	.9990		1.0016	.9994	.9955		.9997	1.0028	.9989	1.0018	1.0008	.9987	1.0018	
15		.9975	1.0005		1.0021	.9991	.9951		1.0003	1.0024	1.0010	1.0024	1.0003	.9982	1.0013	
16		.9990	1.0008		1.0017	.9987	.9955		.9997	1.0018	1.0020	1.0020	1.0018	.9997	1.0007	
17		.9982	1.0010		1.0011	.9990	.9957		.9999	1.0020	1.0004	1.0020	1.0009	.9988	1.0009	
18		.9963	.9992		1.0014	.9993	.9959		1.0001	1.0022	1.0023	1.0022	1.0011	.9990	1.0011	
19		1.0022	.9964		1.0003	.9991	.9956		.9998	1.0019	1.0003	1.0019	1.0008	.9988	1.0008	
20		1.0051	.9988		1.0015	.9985	.9945		.9984	1.0028	.9994	1.0018	1.0007	.9976	1.0007	
21		.9993	.9990		1.0012	.9990	.9948		1.0000	1.0028	1.0012	1.0021	1.0011	.9990	1.0011	
	MEAN	.9988	1.0003		1.0013	.9990	.9953		.9997	1.0027	1.0012	1.0018	1.0004	.9984	1.0012	
	S.D.	.0030	.0013		.0005	.0005	.0004		.0005	.0006	.0011	.0005	.0005	.0005	.0005	



MEAN	S. D.
954.83	1.845
954.61	1.975
954.79	2.258
954.82	2.347
955.54	1.863
954.41	2.378
957.26	3.224
957.25	2.241
957.56	2.192
958.86	1.874
957.02	2.271
956.79	2.317
959.69	2.137
959.27	1.874
958.74	2.118
958.29	1.811
957.11	1.735
955.94	2.069
956.19	1.772
959.31	2.625
957.96	1.927

TABLE 1-12

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																23	24
		1	2	4	5	7	13	15	17	18	19	20	21						
1	12:30:00	948.9	950.9		953.7	949.2	948.0	956.3	952.0	954.0	952.0	954.0	952.0	950.0	953.0				
2	12:30:30	949.9	951.1		952.8	949.2	947.0	955.7	951.0	953.0	954.2	953.0	952.0	949.0	952.0				
3	12:31:00	945.0	950.1		951.1	946.6	945.0	953.4	949.0	951.0	951.9	950.0	950.0	948.0	950.0				
4	12:31:30	944.0	949.1		951.1	946.6	944.0	953.7	948.0	950.0	950.5	950.0	949.0	947.0	950.0				
5	12:32:00	941.1	947.7		948.5	945.0	942.0	950.2	947.0	948.0	948.5	948.0	947.0	945.0	947.0				
6	12:32:30	948.9	949.8		952.8	950.0	947.0	956.9	951.0	953.0	951.9	952.0	952.0	949.0	952.0				
7	12:33:00	951.9	949.6		952.0	949.2	946.0	955.7	950.0	952.0	951.4	951.0	951.0	948.0	951.0				
8	12:33:30	953.0	950.4		952.0	948.3	946.0	956.0	950.0	953.0	951.1	951.0	951.0	948.0	951.0				
9	12:34:00	951.9	950.4		953.7	950.0	947.0	956.3	951.0	953.0	951.2	952.0	951.0	949.0	952.0				
10	12:35:00	950.9	953.6		955.4	951.7	949.0	956.3	951.0	954.0	955.3	954.0	953.0	951.0	954.0				
11	12:35:30	949.9	951.7		953.7	950.0	947.0	956.9	953.0	954.0	952.4	952.0	952.0	950.0	952.0				
12	12:36:00	950.9	948.4		951.1	947.5	945.0	955.7	952.0	951.0	950.0	950.0	950.0	947.0	950.0				
13	12:36:30	951.9	949.1		951.1	947.5	944.5	953.7	949.0	950.0	949.8	949.0	949.0	947.0	950.0				
14	12:38:30	944.0	948.9		952.0	948.3	946.0	952.4	949.0	951.0	951.2	951.0	951.0	945.0	949.0				
15	12:39:00	952.0	950.7		952.0	949.2	946.0	952.7	951.0	953.0	950.7	951.0	951.0	949.0	952.0				
16	12:39:30	950.9	951.9		952.0	949.2	948.0	954.0	950.0	953.0	952.1	950.0	951.0	948.0	951.0				
17	12:40:00	948.9	953.0		954.6	950.9	948.0	954.4	952.0	955.0	955.5	954.0	953.0	950.0	952.0				
18	12:40:30	954.0	950.7		952.8	950.0	951.0	957.3	952.0	954.0	952.6	952.0	951.0	950.0	952.0				
19	12:42:30	954.0	956.2		956.3	953.4	951.0	953.4	955.0	958.0	957.7	955.0	955.0	953.0	956.0				
20	12:43:00	953.8	955.4		956.3	953.4	951.0	957.9	955.0	957.0	956.4	956.0	953.0	953.0	956.0				
21	12:43:30	952.8	956.5		956.3	953.4	944.0	959.5	955.0	957.0	956.2	956.0	955.0	953.0	956.0				
1		9969	9989		1.0019	9972	9959	1.0046	1.0001	1.0022	1.0009	1.0022	1.0001	9980	1.0011				
2		9983	9995		1.0013	9976	9952	1.0044	9994	1.0015	1.0020	1.0015	1.0005	9973	1.0005				
3		9954	1.0008		1.0019	9971	9955	1.0043	9997	1.0016	1.0027	1.0007	1.0007	9986	1.0007				
4		9951	1.0004		1.0025	9978	9951	1.0053	9993	1.0014	1.0019	1.0014	1.0003	9982	1.0014				
5		9942	1.0012		1.0021	9984	9952	1.0039	1.0005	1.0015	1.0021	1.0015	1.0005	9984	1.0005				
6		9975	9985		1.0016	9987	9955	1.0059	9997	1.0018	1.0007	1.0008	1.0008	9976	1.0008				
7		1.0012	9989		1.0014	9984	9951	1.0053	9993	1.0014	1.0008	1.0003	1.0003	9972	1.0003				
8		1.0031	9995		1.0012	9973	9949	1.0054	9991	1.0022	1.0002	1.0001	1.0001	9970	1.0001				
9		1.0009	9994		1.0028	9989	9958		9977	1.0021	1.0002	1.0010	1.0000	9979	1.0010				
10		9976	1.0006		1.0023	9984	9956	1.0033	9977	1.0030	1.0022	1.0009	9998	9977	1.0009				
11		9979	9998		1.0019	9980	9949	1.0053	1.0012	1.0022	1.0005	1.0001	1.0001	9980	1.0001				
12		1.0010	9984		1.0013	9975	9949	1.0061	1.0022	1.0012	1.0001	1.0001	1.0001	9970	1.0001				
13		1.0026	9997		1.0018	9981	9949	1.0046	9996	1.0007	1.0005	9996	9996	9975	1.0005				
14		9947	9998		1.0031	9992	9968	1.0035	9999	1.0020	1.0023	1.0023	1.0020	9957	9957				
15		1.0021	9998		1.0012	9983	9949	1.0019	1.0001	1.0023	9998	1.0001	1.0001	9980	1.0001				
16		1.0000	1.0011		1.0012	9983	9970	1.0033	9994	1.0023	1.0013	9991	1.0002	9970	1.0002				
17		9962	1.0005		1.0021	9983	9952	1.0019	9994	1.0026	1.0031	1.0015	1.0005	9973	1.0005				
18		1.0026	9983		1.0005	9976	9986	1.0052	9997	1.0018	1.0003	9997	9986	9976	9976				
19		9998	1.0013		1.0014	9983	9958	9983	1.0000	1.0032	1.0028	1.0000	1.0000	9979	1.0000				
20		9987	1.0003		1.0013	9982	9957	1.0029	9999	1.0020	1.0014	1.0009	9999	9978	1.0009				
21		9981	1.0019		1.0017	9987	9988	1.0051	1.0003	1.0024	1.0016	9981	1.0003	9982	1.0016				
MEAN		9988	9999		1.0017	9981	9953	1.0040	9998	1.0020	1.0013	1.0007	1.0002	9976	1.0007				
S.D.		0.020	0.010		0.006	0.006	0.017	0.018	0.009	0.004	0.010	0.008	0.005	0.006	0.005				

MEAN	S. D.
951.91	2.406
951.53	2.352
949.31	2.549
948.69	2.750
946.54	2.625
951.26	2.446
950.67	2.306
950.89	2.590
951.01	1.862
953.18	2.297
951.89	2.405
949.89	2.616
949.35	2.277
949.06	2.659
950.06	1.925
950.85	1.803
952.56	2.421
952.32	2.068
954.99	1.949
955.09	1.872
954.67	3.679

TABLE I-13

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
 RUN 13: RAM DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																	23	24
		1	2	4	5	7	13	15	17	18	19	20	21	22	23	24				
1	13:46:00	931.3	931.2	925.9	930.4	929.0	926.0	934.1	929.0	933.0	930.8	931.0	931.0	929.0	929.0	931.0	929.0	931.0		
2	13:46:30	936.3	930.8	925.1	930.4	929.9	927.0	935.0	930.0	932.0	931.0	932.0	932.0	929.0	929.0	931.0	929.0	931.0		
3	13:47:00	939.2	932.2	927.6	931.3	929.0	927.0	934.4	930.0	932.0	931.6	932.0	931.0	930.0	930.0	931.0	930.0	931.0		
4	13:47:30	937.3	933.1	927.3	931.3	930.7	927.0	936.4	930.0	933.0	932.6	932.0	931.0	930.0	930.0	931.0	930.0	932.0		
5	13:48:00	939.2	933.5	928.4	933.0	929.9	928.0	936.4	930.0	933.0	932.6	932.0	931.0	930.0	930.0	931.0	930.0	932.0		
6	13:48:30	940.2	933.5	926.7	932.2	929.9	928.0	936.4	930.0	933.0	932.6	932.0	931.0	930.0	930.0	931.0	930.0	932.0		
7	13:49:00	938.2	932.5	927.6	931.3	929.9	924.0	934.4	930.0	932.0	929.8	931.0	931.0	929.0	929.0	930.0	928.0	930.6		
8	13:49:30	931.5	930.3	925.9	930.4	928.2	924.0	932.0	928.0	930.0	929.3	930.0	930.0	929.0	929.0	930.0	928.0	929.0		
9	13:50:00	934.3	929.2	925.1	928.7	927.3	925.0	932.0	926.0	928.0	926.0	930.0	928.0	926.0	926.0	928.0	926.0	928.0		
10	13:50:30	925.4	927.9	923.5	927.8	924.5	924.0	931.2	926.0	928.0	927.8	930.0	928.0	926.0	926.0	928.0	926.0	928.0		
11	13:51:00	916.5	928.9	925.1	929.6	927.3	924.0	932.1	927.0	931.0	927.0	930.0	929.0	928.0	928.0	930.0	928.0	929.0		
12	13:51:30	910.3	929.3	925.1	929.6	927.3	925.0	931.2	928.0	930.0	928.9	930.0	929.0	928.0	928.0	930.0	928.0	929.0		
13	13:52:00	913.6	928.4	925.1	929.6	927.3	925.0	931.2	928.0	930.0	928.9	930.0	929.0	928.0	928.0	930.0	928.0	929.0		
14	13:52:30	910.6	926.4	923.5	928.7	926.5	924.0	932.1	927.0	929.0	926.3	928.0	927.0	926.0	926.0	928.0	926.0	927.0		
15	13:53:00	929.4	927.0	922.7	927.0	925.6	923.0	930.5	926.0	929.0	927.5	928.0	927.0	926.0	926.0	928.0	926.0	927.0		
16	13:53:30	933.3	926.1	922.7	927.0	924.8	922.5	929.8	925.0	927.0	924.4	927.0	926.0	924.0	924.0	926.0	924.0	926.0		
17	13:54:00	914.6	924.2	919.4	926.1	924.8	921.0	928.2	924.0	926.0	924.4	927.0	926.0	924.0	924.0	926.0	924.0	926.0		
18	13:54:30	919.5	925.4	918.6	927.0	924.9	922.0	930.5	925.0	927.0	924.8	927.0	926.0	924.0	924.0	926.0	924.0	926.0		
19	13:55:00	933.3	925.4	918.6	927.0	924.9	922.0	930.5	925.0	927.0	924.8	927.0	926.0	924.0	924.0	926.0	924.0	926.0		
20	13:55:30	925.4	923.3	917.8	924.4	922.7	919.0	928.2	922.0	925.0	924.3	925.0	923.0	922.0	922.0	924.0	922.0	924.0		
21	13:56:00	928.4	923.4	917.0	923.5	921.4	918.0	924.9	922.0	924.0	923.3	924.0	923.0	922.0	922.0	924.0	922.0	924.0		
1		1.0012	1.0011	.9954	1.0002	.9987	.9955	1.0042	.9907	1.0030	1.0006	1.0089	1.0009	.9987	.9987	1.0009	.9987	1.0009		
2		1.0050	.9999	.9930	.9995	.9989	.9950	1.0033	.9991	1.0012	1.0001	1.0012	1.0012	.9980	.9980	1.0012	.9980	1.0001		
3		1.0005	1.0010	.9960	1.0000	.9975	.9954	1.0033	.9986	1.0007	1.0003	1.0007	1.0007	.9986	.9986	1.0007	.9986	1.0007		
4		1.0060	1.0015	.9955	.9996	.9989	.9949	1.0050	.9982	1.0014	1.0010	1.0003	.9992	.9982	.9982	1.0003	.9982	1.0003		
5		1.0076	1.0015	.9960	1.0002	.9985	.9954	1.0029	.9980	1.0010	.9988	.9999	.9999	.9988	.9988	.9999	.9988	.9999		
6		1.0008	1.0016	.9943	1.0002	.9977	.9957	1.0047	.9978	1.0010	1.0036	1.0000	1.0000	.9978	.9978	1.0000	.9978	1.0000		
7		1.0076	1.0014	.9961	1.0002	.9986	.9923	1.0035	.9980	1.0009	1.0012	1.0009	.9998	.9980	.9980	1.0009	.9980	.9998		
8		.9922	1.0017	.9970	1.0018	.9995	.9971	1.0044	.9992	1.0014	1.0012	1.0025	1.0014	.9992	.9992	1.0014	.9992	1.0014		
9		1.0050	1.0003	.9959	.9990	.9983	.9950	1.0042	.9979	1.0012	1.0004	1.0012	1.0001	.9990	.9990	1.0012	.9990	1.0001		
10		.9982	1.0009	.9961	1.0000	.9994	.9967	1.0044	.9980	1.0010	.9997	1.0031	1.0010	.9980	.9980	1.0010	.9980	1.0010		
11		.9804	1.0017	.9976	1.0025	1.0000	.9964	1.0052	.9997	1.0029	1.0005	1.0029	1.0007	.9997	.9997	1.0007	.9997	1.0018		
12		1.0015	1.0004	.9959	1.0007	.9992	.9950	1.0049	.9979	1.0022	1.0009	1.0012	1.0001	.9999	.9999	1.0012	.9999	1.0001		
13		.9852	1.0012	.9977	1.0025	1.0000	.9975	1.0042	1.0008	1.0029	1.0017	1.0029	1.0010	.9997	.9997	1.0010	.9997	1.0010		
14		1.0027	1.0003	.9972	1.0020	1.0005	.9978	1.0045	1.0010	1.0032	1.0002	1.0042	1.0010	.9999	.9999	1.0010	.9999	1.0021		
15		1.0074	1.0001	.9955	1.0010	.9986	.9950	1.0039	.9990	1.0023	1.0007	1.0012	1.0001	.9999	.9999	1.0012	.9999	1.0001		
16		1.0074	.9996	.9959	1.0004	.9982	.9957	1.0036	1.0004	1.0006	1.0011	1.0006	.9995	.9995	.9995	1.0006	.9995	.9995		
17		.9808	1.0002	.9951	1.0023	1.0009	.9968	1.0046	1.0000	1.0022	1.0005	1.0033	1.0022	1.0000	1.0000	1.0033	1.0022	1.0000		
18		.9941	.9993	.9940	1.0022	.9998	.9968	1.0040	1.0021	1.0022	.9998	1.0033	1.0011	1.0000	1.0000	1.0033	1.0011	1.0011		
19		1.0003	.9990	.9924	1.0005	.9982	.9961	1.0020	.9993	1.0015	1.0004	1.0015	.9993	.9993	.9993	1.0015	.9993	1.0004		
20		1.0023	1.0000	.9944	1.0012	.9994	.9953	1.0053	.9984	1.0018	1.0011	1.0018	.9997	.9984	.9984	1.0018	.9997	1.0004		
21		1.0060	1.0004	.9937	1.0007	.9904	.9947	1.0022	.9990	1.0012	1.0005	1.0012	1.0012	.9991	.9991	1.0012	.9991	1.0012		
MEAN		1.0005	1.0007	.9955	1.0009	.9990	.9959	1.0043	.9990	1.0017	1.0005	1.0017	1.0005	.9990	.9990	1.0017	.9990	1.0007		
S.D.		.0083	.0007	.0014	.0010	.0009	.0011	.0011	.0009	.0008	.0006	.0012	.0009	.0006	.0006	.0012	.0006	.0006		

MEAN	S.D.
930.20	2.285
930.88	2.919
931.31	2.983
931.71	2.833
932.11	2.746
932.04	3.357
931.16	3.207
928.71	2.805
928.91	2.536
927.08	2.095
927.31	3.728
928.92	2.232
927.29	4.328
926.08	4.982
926.89	2.187
926.48	2.713
923.78	3.539
924.95	3.038
925.61	3.239
923.29	2.623
922.85	2.805

TABLE 1-14

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	14:08:00	908.4	912.9	907.8	912.4	909.5	906.0		910.0	912.0	911.0	912.0	911.0	909.0	910.0
2	14:08:30	913.3	915.0	907.8	912.4	910.4	908.0	915.4	911.0	914.0	912.9	914.0	912.0	911.0	912.0
3	14:09:00	908.2	915.6	909.5	913.2	911.2	908.0	917.0	911.0	915.0	914.3	913.0	912.0	911.0	912.0
4	14:09:30	918.2	915.1	907.8	912.4	912.9	900.0	917.4	911.0	914.0	912.0	913.0	912.0	911.0	912.0
5	14:10:00	915.3	915.5	907.0	912.4	912.1	907.0	917.7	910.0	914.0	913.2	913.0	912.0	911.0	912.0
6	14:10:30	912.3	914.7	905.4	911.5	910.4	906.0	914.4	909.0	912.0	910.4	911.0	910.0	910.0	910.0
7	14:11:00	914.3	912.0	903.8	908.9	907.8	904.0	913.7	907.0	910.0	910.4	910.0	909.0	908.0	908.0
8	14:11:30	908.4	913.9	907.8	911.5	912.1	907.0	917.7	909.0	913.0	912.1	914.0	912.0	910.0	911.0
9	14:13:30	913.3	905.9	902.2	907.2	906.1	903.0	911.4	906.0	910.0	908.1	909.0	908.0	907.0	907.0
10	14:14:00	910.4	909.7	899.7	905.4	904.4	901.0	911.4	903.0	909.0	906.6	907.0	907.0	904.0	906.0
11	14:14:30	899.6	907.1	898.9	904.5	901.9	899.0	911.4	902.0	907.0	904.8	905.0	904.0	903.0	903.0
12	14:15:00	898.6	907.5	898.1	904.5	903.6	899.0	910.7	902.0	906.0	905.3	905.0	904.0	903.0	904.0
13	14:15:30	902.5	907.5	897.3	904.5	902.8	899.0	910.4	902.0	906.0	904.7	905.0	903.0	903.0	903.0
14	14:16:30	891.7	905.5	897.3	903.7	901.9	897.0	909.7	900.0	905.0	902.7	903.0	902.0	901.0	902.0
15	14:17:00	901.5	905.3	895.7	901.1	900.2	894.0	906.0	899.0	904.0	902.4	902.0	901.0	900.0	901.0
16	14:17:30	904.5	903.7	895.7	900.6	899.4	894.0	905.0	897.0	903.0	901.2	900.0	900.0	898.0	899.0
17	14:18:00	902.5	903.7	895.7	902.4	900.2	895.0	905.7	898.0	902.0	901.0	900.0	900.0	898.0	899.0
18	14:18:30	908.4	905.0	895.7	901.5	900.2	896.0	904.7	898.0	903.0	901.9	901.0	900.0	900.0	900.0
19	14:19:00	906.4	904.2	894.9	901.1	899.4	896.0	903.7	898.0	902.0	901.6	901.0	900.0	900.0	900.0
20	14:19:30	907.4	904.8	894.9	901.9	900.4	896.0	905.0	899.0	903.0	902.2	901.0	900.0	900.0	900.0
21	14:20:00	907.4	903.8	894.9	900.6	899.4	895.0	903.7	898.0	902.0	900.9	900.0	900.0	899.0	900.0
1		9981	1.0030	9975	1.0025	9993	9954		9998	1.0020	1.0009	1.0020	1.0007	9987	9998
2		1.0013	1.0032	9954	1.0003	9981	9955	1.0036	9988	1.0021	1.0009	1.0021	1.0006	9988	9999
3		1.0056	1.0028	9961	1.0001	9980	9944	1.0043	9977	1.0021	1.0013	9999	9999	9988	9988
4		1.0068	1.0033	9954	1.0034	1.0009	9868	1.0059	9988	1.0021	9999	1.0010	9999	9988	9988
5		1.0033	1.0035	9942	1.0001	9998	9942	1.0059	9975	1.0019	1.0010	1.0008	9997	9986	9997
6		1.0020	1.0046	9944	1.0011	9999	9950	1.0043	9983	1.0016	9999	1.0005	9994	9994	9994
7		1.0058	1.0032	9942	9998	9986	9944	1.0051	9977	1.0010	1.0015	1.0010	9999	9988	9988
8		9967	1.0027	9961	1.0001	1.0008	9952	1.0069	9974	1.0018	1.0008	1.0029	1.0007	9985	9996
9		1.0065	9983	9942	9997	9985	9951	1.0044	9984	1.0028	1.0007	1.0017	1.0006	9995	9995
10		1.0048	1.0040	9930	9993	9982	9944	1.0059	9966	1.0033	1.0006	1.0011	1.0011	9977	1.0000
11		9955	1.0038	9948	1.0009	9981	9948	1.0086	9982	1.0037	1.0013	1.0015	1.0004	9993	9993
12		9944	1.0042	9939	1.0009	9999	9948	1.0078	9982	1.0026	1.0018	1.0015	1.0004	9993	1.0022
13		9988	1.0043	9930	1.0010	9991	9949	1.0075	9982	1.0026	1.0012	1.0015	9993	9993	9993
14		9890	1.0043	9952	1.0023	1.0003	9949	1.0090	9982	1.0038	1.0012	1.0015	1.0004	9993	1.0004
15		1.0005	1.0047	9940	1.0000	9990	9944	1.0055	9977	1.0032	1.0015	1.0010	9999	9999	9999
16		1.0049	1.0040	9951	1.0006	9993	9933	1.0055	9966	1.0032	1.0012	9999	9999	9977	9988
17		1.0025	1.0039	9949	1.0024	1.0000	9942	1.0061	9975	1.0020	1.0009	9997	9997	9975	9986
18		1.0081	1.0043	9940	1.0004	9990	9943	1.0040	9966	1.0021	1.0009	9999	9999	9988	9988
19		1.0066	1.0041	9937	1.0006	9988	9950	1.0035	9972	1.0016	1.0012	1.0005	9994	9983	9994
20		1.0070	1.0041	9931	1.0007	9992	9943	1.0043	9971	1.0021	1.0012	9999	9999	9983	9988
21		1.0079	1.0038	9939	1.0003	9990	9941	1.0037	9974	1.0018	1.0006	9996	9996	9985	9996
MEAN		1.0022	1.0035	9946	1.0007	9992	9943	1.0056	9978	1.0024	1.0010	1.0009	9999	9987	9995
S.D.		.0052	.0013	.0011	.0009	.0009	.0018	.0017	.0008	.0007	.0005	.0009	.0006	.0006	.0005

MEAN	S. D.
910.16	2.006
912.09	2.302
913.07	2.806
912.06	4.355
912.30	2.980
910.51	2.615
909.06	3.072
911.40	2.848
907.44	2.962
906.04	3.436
903.66	3.448
903.66	3.472
903.62	3.252
901.61	4.305
901.09	2.969
900.07	3.263
900.23	2.977
901.10	3.457
900.52	3.106
901.11	3.370
900.33	3.322

TABLE 1-15

FIRST INTERCOMPARISON - NOVEMBER 3, 1978  
RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														
		1	2	4	5	7	13	15	17	18	19	20	21	23	24	
1	14:32:00	888.6	890.3	881.7	889.7	885.6	885.0	886.0	891.0	888.7	889.0	889.0	887.0	887.0	888.0	
2	14:32:30	889.6	888.7	881.7	888.0	884.7	884.0	885.0	889.0	888.3	888.0	888.0	886.0	886.0	886.0	
3	14:33:00	886.7	886.9	879.3	885.0	882.2	882.0	883.0	887.0	886.1	886.0	886.0	884.0	884.0	884.0	
4	14:33:30	880.8	885.3	878.5	885.4	882.2	880.0	882.0	886.0	883.0	883.0	883.0	882.0	882.0	883.0	
5	14:34:00	876.9	886.4	876.9	882.8	880.5	879.0	881.0	884.0	883.0	884.0	884.0	882.0	881.0	882.0	
6	14:34:30	877.8	883.9	875.3	881.1	878.0	878.0	880.0	883.0	883.0	884.0	884.0	881.0	880.0	881.0	
7	14:35:00	880.8	881.4	874.5	880.2	878.0	877.0	879.0	881.0	881.2	881.0	881.0	878.0	878.0	879.0	
8	14:35:30	876.9	882.5	875.3	881.5	879.6	877.0	879.0	883.0	882.3	882.0	882.0	880.0	879.0	880.0	
9	14:36:00	876.9	884.2	876.1	882.8	880.5	878.0	880.0	884.0	882.8	882.0	882.0	881.0	881.0	881.0	
10	14:36:30	881.8	886.2	875.3	882.4	879.6	879.0	881.0	884.0	883.4	883.0	883.0	881.0	881.0	882.0	
11	14:37:00	881.8	883.5	876.1	882.8	880.5	879.0	881.0	885.0	883.6	883.0	883.0	882.0	881.0	882.0	
12	14:37:30	882.8	883.6	875.3	881.5	879.6	878.0	880.0	884.0	882.5	882.0	882.0	880.0	880.0	881.0	
13	14:38:00	874.9	882.7	875.3	881.5	878.8	877.0	878.0	882.0	881.4	881.0	881.0	879.0	879.0	880.0	
14	14:38:30	883.7	882.7	875.3	871.1	878.8	877.0	879.0	882.0	881.4	881.0	881.0	879.0	880.0	880.0	
15	14:39:00	882.8	880.5	874.5	879.3	878.0	875.0	877.0	882.0	879.2	880.0	880.0	878.0	878.0	879.0	
16	14:39:30	878.0	878.0	872.9	878.5	876.3	873.0	875.0	879.0	878.2	877.0	877.0	875.0	875.0	876.0	
17	14:40:00	867.1	876.0	869.6	875.9	874.6	873.0	874.0	878.0	876.2	877.0	877.0	875.0	874.0	874.0	
18	14:40:30	872.0	875.6	868.0	874.2	872.9	872.0	873.0	876.0	875.4	876.0	876.0	874.0	873.0	874.0	
19	14:41:00	870.0	874.2	868.0	873.2	872.0	870.0	872.0	875.0	874.3	874.0	874.0	872.0	872.0	872.0	
20	14:41:30	872.9	874.2	868.0	874.2	871.2	869.0	871.0	875.0	873.3	874.0	874.0	872.0	871.0	872.0	
21	14:42:00	868.0	873.3	866.4	873.2	871.2	869.0	870.0	874.0	871.9	873.0	873.0	871.0	871.0	871.0	
1		1.0013	1.0031	.9935	1.0025	.9978	.9972	.9983	1.0039	1.0013	1.0017	1.0017	.9994	.9994	1.0005	
2		1.0045	1.0023	.9945	1.0016	.9978	.9970	.9982	1.0027	1.0019	1.0016	1.0016	.9993	.9993	.9993	
3		1.0006	1.0031	.9945	1.0009	.9978	.9975	.9987	1.0032	1.0022	1.0021	1.0021	.9998	.9998	.9998	
4		.9976	1.0027	.9950	1.0028	.9992	.9967	.9990	1.0035	1.0018	1.0024	1.0024	1.0001	.9990	1.0001	
5		.9929	1.0036	.9951	1.0018	.9992	.9975	.9995	1.0032	1.0021	1.0032	1.0032	.9998	.9998	1.0009	
6		.9970	1.0039	.9941	1.0007	.9972	.9972	.9995	1.0029	1.0029	1.0029	1.0040	1.0006	.9995	1.0006	
7		1.0020	1.0026	.9948	1.0013	.9988	.9976	.9988	1.0022	1.0024	1.0022	1.0022	.9988	.9988	.9999	
8		.9966	1.0030	.9948	1.0019	.9997	.9968	.9990	1.0036	1.0028	1.0024	1.0024	1.0002	.9990	1.0002	
9		.9956	1.0040	.9948	1.0024	.9998	.9969	.9992	1.0037	1.0024	1.0015	1.0015	.9992	1.0003	1.0003	
10		1.0005	1.0032	.9931	1.0012	.9980	.9973	.9996	1.0030	1.0023	1.0019	1.0019	.9996	.9996	1.0007	
11		1.0002	1.0021	.9937	1.0013	.9987	.9970	.9993	1.0038	1.0022	1.0015	1.0015	1.0004	.9993	1.0004	
12		1.0022	1.0032	.9938	1.0008	.9987	.9968	.9991	1.0036	1.0019	1.0014	1.0014	.9991	.9991	1.0002	
13		.9950	1.0039	.9955	1.0025	.9995	.9974	.9985	1.0031	1.0024	1.0020	1.0020	.9997	.9997	1.0008	
14		1.0050	1.0038	.9953	.9906	.9993	.9973	.9996	1.0030	1.0023	1.0030	1.0030	.9996	1.0007	1.0007	
15		1.0046	1.0020	.9952	1.0007	.9992	.9958	.9981	1.0037	1.0006	1.0015	1.0015	.9992	.9992	1.0003	
16		1.0026	1.0017	.9958	1.0023	.9998	.9960	.9983	1.0028	1.0019	1.0006	1.0006	.9994	.9983	1.0006	
17		.9917	1.0019	.9946	1.0018	1.0003	.9985	.9996	1.0042	1.0021	1.0030	1.0030	.9996	.9996	1.0019	
18		.9982	1.0024	.9937	1.0007	.9993	.9982	.9994	1.0028	1.0021	1.0028	1.0028	1.0005	.9994	1.0005	
19		.9974	1.0022	.9951	1.0010	.9997	.9974	.9997	1.0031	1.0023	1.0020	1.0020	.9997	.9997	1.0008	
20		1.0009	1.0024	.9953	1.0024	.9989	.9964	.9987	1.0033	1.0013	1.0021	1.0021	.9998	.9987	1.0008	
21		.9966	1.0026	.9947	1.0025	1.0002	.9977	.9988	1.0034	1.0010	1.0023	1.0023	1.0000	1.0000	1.0000	
MEAN		.9992	1.0028	.9946	1.0011	.9990	.9972	.9990	1.0033	1.0020	1.0021	1.0021	.9998	.9994	1.0004	
S.D.		.0038	.0007	.0007	.0025	.0009	.0006	.0005	.0005	.0006	.0006	.0006	.0006	.0006	.0005	



MEAN	S.D.
887.51	2.514
886.62	2.425
884.17	2.181
882.90	2.286
881.19	2.835
880.47	2.651
879.08	2.074
879.85	2.409
880.71	2.549
881.36	2.406
881.64	2.270
880.79	2.386
879.28	2.487
879.39	3.418
878.71	2.395
876.52	2.072
874.34	3.021
873.55	2.179
872.29	2.007
872.14	2.091
871.00	2.214

FIRST INTERCOMPARISON - NOVEMBER 2.3. 1978  
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	INSTRUMENT IDENTIFICATION NUMBER																			
	1	2	4	5	7	13	15	17	18	19	20	21	23	24						
1	1.0027	.9991	.9945	1.0015	.9992	.9970	1.0048	.9983	1.0029	1.0006	1.0013	1.0002	.9975	1.0003						
2	1.0019	1.0012	.9954	1.0006	.9981	.9983	1.0046	.9996	1.0044	.9999	1.0008	.9983	.9979	.9989						
3	.9991	.9987	.9994	1.0010	.9988	.9956	1.0047	1.0006	1.0012	1.0002	1.0020	1.0000	.9987	.9997						
4	1.0016	1.0037	.9966	.9992	.9969	.9968	1.0048	.9980	1.0028	1.0000	1.0013	1.0001	.9985	.9996						
5	1.0022	1.0038	.9946	1.0023	.9999	.9983	.9999	.9997	1.0013	.9943	1.0025	1.0008	.9987	1.0007						
6	1.0044	1.0002	.9941	.9989	.9996	.9989	1.0054	1.0000	1.0048	.9908	1.0031	1.0006	.9989	1.0005						
7	1.0015	.9982	.9941	1.0006	.9994	.9973	1.0076	1.0004	1.0028	.9953	1.0029	1.0001	.9990	1.0006						
8	1.0004	1.0009	.9974	1.0006	.9979	.9946	1.0050	1.0000	1.0023	1.0004	1.0007	.9994	.9990	1.0000						
9	1.0003	1.0001		1.0009	.9925	.9964	1.0050	1.0000	1.0023	1.0004	1.0009	.9987	.9982	1.0002						
10	1.0031	.9994		1.0020	.9998	.9962	.9936	.9994	1.0025	1.0003	1.0030	1.0006	.9994	1.0009						
11	.9988	1.0003		1.0013	.9990	.9953		.9997	1.0027	1.0012	1.0018	1.0004	.9984	1.0012						
12	.9988	.9999		1.0017	.9981	.9953	1.0040	.9990	1.0020	1.0013	1.0007	1.0002	.9976	1.0007						
13	1.0005	1.0007	.9955	1.0009	.9990	.9959	1.0043	.9990	1.0017	1.0005	1.0017	1.0005	.9990	1.0007						
14	1.0022	1.0035	.9946	1.0007	.9992	.9943	1.0056	.9978	1.0024	1.0010	1.0009	.9999	.9987	.9995						
15	.9992	1.0028	.9946	1.0011	.9990	.9972		.9990	1.0033	1.0020	1.0021	.9998	.9994	1.0004						
MEAN	1.0011	1.0008	.9955	1.0009	.9982	.9965	1.0042	.9993	1.0025	.9991	1.0017	1.0000	.9986	1.0003						
S.D.	.0017	.0018	.0017	.0009	.0008	.0014	.0035	.0009	.0011	.0031	.0009	.0007	.0006	.0006						

ORIGINAL PAGE IS  
OF POOR QUALITY

Second Intercomparison - May 2-3, 1979

TABLE 2-1

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24						
1	09:40:00	943.8	942.8	941.3	944.4	947.5	943.9	940.0	944.0	943.0	943.0	943.0	941.0	943.15	2.008				
2	09:40:30	944.7	942.1	940.5	944.4	945.5	943.8	939.0	944.0	942.5	942.0	942.0	940.0	942.59	2.103				
3	09:41:00	943.8	941.8	940.5	944.4	945.5	943.3	940.0	943.0	942.1	943.0	943.0	940.0	942.69	1.805				
4	09:41:30	943.8	941.2	940.5	944.4	945.5	943.0	940.0	943.0	941.8	941.0	941.0	939.0	942.11	2.001				
5	09:42:00	943.8	941.7	940.5	943.6	945.5	943.5	940.0	943.0	942.2	943.0	943.0	939.0	942.35	1.907				
6	09:42:30	945.6	942.6	942.1	945.9	948.5	944.5	942.0	944.0	942.7	943.0	943.0	940.0	943.72	2.325				
7	09:43:00	945.6	944.4	943.0	945.9	948.5	945.5	941.0	945.0	944.0	942.0	942.0	942.0	944.26	2.169				
8	09:43:30	946.4	944.4	942.1	947.4	948.5	946.1	941.0	945.0	945.9	944.0	944.0	942.0	944.80	2.373				
9	09:44:00	947.3	944.0	943.0	947.4	950.5	946.6	942.0	945.0	944.6	946.0	946.0	943.0	945.40	2.475				
10	09:44:30	946.4	944.5	944.3	947.4	950.5	946.2	943.0	947.0	945.2	945.0	945.0	944.0	945.77	2.065				
11	09:45:00	946.4	944.3	943.8	947.4	949.5	946.2	942.0	947.0	944.9	944.0	944.0	944.0	945.41	2.110				
12	09:45:30	947.3	945.0	944.3	947.4	952.6	946.7	942.0	947.0	945.2	944.0	944.0	944.0	945.95	2.779				
13	09:46:00	948.2	944.8	944.7	948.1	952.6	947.6	942.0	947.0	945.5	944.0	944.0	944.0	946.23	2.884				
14	09:46:30	949.0	946.0	945.5	950.3	953.6	947.9	944.0	948.0	946.7	946.0	946.0	945.0	947.45	2.745				
15	09:47:00	949.0	946.8	946.4	950.3	954.6	947.9	944.0	949.0	947.3	946.0	946.0	946.0	947.94	2.816				
16	09:47:30	950.8	946.8	946.4	951.8	954.6	949.4	944.0	949.0	948.0	946.0	946.0	946.0	948.44	3.077				
17	09:48:00	950.8	947.7	948.1	951.8	955.6	950.3	946.0	949.0	943.7	948.0	948.0	947.0	948.91	3.175				
18	09:48:30	951.6	948.3	948.1	952.6	956.6	951.1	946.0	950.0	949.3	949.0	949.0	948.0	950.05	2.864				
19	09:49:00	952.5	949.2	948.9	953.3	956.6	952.2	947.0	951.0	950.0	949.0	949.0	948.0	950.70	2.775				
20	09:49:30	953.4	950.4	949.8	954.1	956.6	952.8	948.0	952.0	950.5	951.0	951.0	949.0	951.60	2.491				
21	09:50:00	953.4	950.7	950.6	954.1	956.6	952.6	949.0	952.0	951.3	951.0	951.0	950.0	951.47	1.566				
1		1.0007	.9996	.9980	1.0013	1.0046	1.0008	.9967	1.0009	.9998	.9998	.9998	.9977	.9998					
2		1.0022	.9995	.9978	1.0019	1.0031	1.0013	.9962	1.0015	.9999	.9994	.9994	.9973	.9994					
3		1.0014	.9993	.9979	1.0020	1.0032	1.0009	.9974	1.0005	.9996	1.0005	1.0005	.9974	.9996					
4		1.0018	.9990	.9983	1.0024	1.0036	1.0009	.9978	1.0009	.9997	.9998	.9998	.9967	.9997					
5		1.0015	.9993	.9983	1.0013	1.0033	1.0012	.9975	1.0007	.9995	.9998	.9998	.9964	.9994					
6		1.0020	.9988	.9983	1.0023	1.0051	1.0008	.9982	1.0003	.9989	.9992	.9992	.9961	.9992					
7		1.0014	1.0001	.9987	1.0017	1.0045	1.0013	.9965	1.0008	.9997	.9976	.9976	.9976	.9976					
8		1.0017	.9996	.9971	1.0028	1.0039	1.0014	.9960	1.0002	1.0012	.9992	.9992	.9970	.9992					
9		1.0020	.9985	.9975	1.0021	1.0054	1.0013	.9964	.9996	.9992	1.0006	.9992	.9975	.9992					
10		1.0007	.9987	.9984	1.0017	1.0050	1.0005	.9971	1.0013	.9994	.9992	.9992	.9981	.9992					
11		1.0010	.9988	.9983	1.0021	1.0043	1.0008	.9964	1.0017	.9995	.9985	.9985	.9985	.9985					
12		1.0014	.9990	.9983	1.0015	1.0070	1.0008	.9958	1.0011	.9992	.9979	.9979	.9979	.9979					
13		1.0021	.9985	.9984	1.0020	1.0067	1.0015	.9955	1.0008	.9992	.9976	.9976	.9976	.9976					
14		1.0016	.9985	.9979	1.0030	1.0065	1.0005	.9964	1.0006	.9992	.9985	.9985	.9974	.9985					
15		1.0011	.9983	.9984	1.0025	1.0070	1.0000	.9958	1.0011	.9993	.9980	.9980	.9980	.9980					
16		1.0025	.9983	.9979	1.0035	1.0065	1.0010	.9953	1.0006	.9995	.9974	.9974	.9974	.9974					
17		1.0020	.9987	.9987	1.0030	1.0071	1.0015	.9969	1.0001	.9995	.9990	.9990	.9990	.9990					
18		1.0016	.9982	.9979	1.0027	1.0069	1.0011	.9957	.9999	.9992	.9989	.9989	.9978	.9989					
19		1.0019	.9984	.9981	1.0027	1.0062	1.0016	.9961	1.0003	.9993	.9982	.9982	.9972	.9982					
20		1.0019	.9987	.9981	1.0026	1.0053	1.0013	.9962	1.0004	.9988	.9994	.9994	.9973	.9994					
21		1.0020	.9997	.9991	1.0028	1.0053	1.0012	.9974	1.0006	.9998	.9995	.9995	.9985	.9995					
MEAN		1.0017	.9989	.9982	1.0023	1.0053	1.0010	.9965	1.0007	.9993	.9990	.9990	.9975	.9990					
S.D.		.0005	.0005	.0005	.0006	.0014	.0004	.0008	.0005	.0012	.0010	.0010	.0006	.0010					

TABLE 2-2

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																	MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24							
1	10:02:00	952.9	952.1	949.7	954.9	958.6	954.0	950.0	953.0						951.0	952.92	2.595			
2	10:02:30	953.7	952.2	949.7	955.7	956.5	954.3	951.0	953.0						954.0	953.11	2.164			
3	10:03:00	953.7	953.1	950.6	955.7	955.5	955.3	952.0	954.0						955.0	953.69	1.743			
4	10:03:30	954.6	953.8	951.4	957.2	956.5	956.2	953.0	955.0						956.0	954.67	1.856			
5	10:04:00	954.6	953.9	951.4	957.9	956.5	956.0	953.0	955.0						955.0	954.63	1.904			
6	10:04:30	954.6	954.4	951.4	957.2	957.5	956.6	953.0	956.0						956.0	955.07	1.946			
7	10:05:00	955.5	954.5	952.3	957.9	958.6	956.8	953.0	956.0						957.0	955.56	2.089			
8	10:05:30	955.5	954.4	952.3	957.9	960.6	956.6	953.0	957.0						954.0	955.83	2.502			
9	10:06:00	955.5	954.9	952.3	957.2	959.6	956.9	953.0	956.0						957.0	955.64	2.187			
10	10:06:30	954.6	954.2	952.3	957.7	959.6	957.1	953.0	957.0						955.0	955.75	2.293			
11	10:07:00	955.5	954.3	952.3	957.9	960.6	957.0	953.0	957.0						956.0	955.76	2.495			
12	10:07:30	954.6	954.1	952.3	957.2	961.6	956.7	952.0	957.0						954.0	955.45	2.819			
13	10:08:00	955.5	954.5	952.3	957.9	960.6	956.8	952.0	956.0						955.0	955.66	2.575			
14	10:08:30	955.5	953.7	952.3	956.4	960.6	956.4	952.0	956.0						955.0	955.19	2.475			
15	10:09:00	954.6	953.0	951.4	957.2	959.6	955.9	952.0	955.0						954.0	954.57	2.496			
16	10:09:30	953.7	951.5	950.6	955.7	957.5	954.8	950.0	953.0						956.0	953.28	2.345			
17	10:10:00	953.7	952.0	950.6	955.7	958.6	954.9	950.0	954.0						954.0	953.55	2.549			
18	10:10:30	954.6	952.8	951.4	956.4	959.6	955.5	951.0	955.0						956.0	954.43	2.496			
19	10:11:00	954.6	952.9	952.3	957.2	958.6	955.8	952.0	955.0						954.0	954.74	2.098			
20	10:11:30	953.7	952.8	951.4	956.4	958.6	955.7	952.0	956.0						954.0	954.66	2.211			
21	10:12:00	953.7	952.5	951.4	956.4	958.6	955.4	951.0	955.0						953.0	954.10	2.330			
1		1.0000	.9991	.9966	1.0021	1.0060	1.0011	.9969	1.0001						1.0001	.9980				
2		1.0006	.9990	.9964	1.0027	1.0036	1.0012	.9978	.9999						1.0009	.9978				
3		1.0000	.9994	.9968	1.0021	1.0019	1.0017	.9982	1.0003						1.0014	.9982				
4		.9999	.9991	.9966	1.0027	1.0019	1.0016	.9983	1.0003						1.0014	.9983				
5		1.0000	.9992	.9966	1.0034	1.0020	1.0014	.9983	1.0004						1.0004	.9983				
6		.9995	.9993	.9962	1.0022	1.0025	1.0016	.9978	1.0010						1.0010	.9989				
7		.9999	.9989	.9966	1.0024	1.0032	1.0013	.9973	1.0005						1.0015	.9984				
8		.9997	.9985	.9963	1.0022	1.0030	1.0008	.9970	1.0012						1.0012	.9981				
9		.9999	.9992	.9965	1.0016	1.0041	1.0013	.9972	1.0004						1.0014	.9983				
10		.9988	.9984	.9964	1.0020	1.0040	1.0014	.9971	1.0013						1.0013	.9992				
11		.9997	.9985	.9964	1.0022	1.0051	1.0013	.9971	1.0013						1.0003	.9982				
12		.9991	.9986	.9967	1.0018	1.0064	1.0013	.9964	1.0016						.9995	.9985				
13		1.0000	.9990	.9967	1.0026	1.0054	1.0014	.9964	1.0006						.9995	.9985				
14		1.0003	.9984	.9970	1.0013	1.0057	1.0013	.9967	1.0008						.9998	.9988				
15		1.0000	.9984	.9967	1.0028	1.0064	1.0014	.9973	1.0005						.9994	.9984				
16		1.0004	.9981	.9972	1.0025	1.0064	1.0016	.9964	.9997						1.0008	.9987				
17		1.0002	.9984	.9969	1.0023	1.0053	1.0014	.9963	1.0005						1.0005	.9984				
18		1.0002	.9983	.9968	1.0021	1.0054	1.0011	.9964	1.0006						.9995	.9985				
19		.9999	.9981	.9974	1.0026	1.0064	1.0011	.9971	1.0003						1.0003	.9992				
20		.9992	.9983	.9968	1.0020	1.0063	1.0013	.9974	1.0016						.9995	.9985				
21		.9996	.9983	.9972	1.0024	1.0067	1.0014	.9968	1.0009						.9999	.9988				
	MEAN	.9999	.9987	.9967	1.0023	1.0063	1.0013	.9972	1.0007						1.0005	.9986				
	S.D.	.0004	.0004	.0003	.0004	.0014	.0002	.0006	.0005						.0007	.0005				

TABLE 2-3

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24				
1	10:22:00	958.7	958.3	955.7	961.1	963.2	959.2	955.0	961.0	959.0	957.0	958.0	958.75	2.405			
2	10:22:30	961.3	960.3	958.2	964.1	966.2	961.3	957.0	962.0	960.8	961.0	959.0	961.07	2.573			
3	10:23:00	962.1	961.8	959.0	965.6	967.2	963.1	960.0	963.0	962.2	962.0	961.0	962.45	2.324			
4	10:23:30	964.7	962.8	959.9	966.3	968.2	964.0	960.0	964.0	963.5	962.0	962.0	963.40	2.489			
5	10:24:00	963.9	962.5	959.0	966.3	967.2	963.4	960.0	963.0	962.5	962.0	962.0	962.89	2.385			
6	10:24:30	966.5	964.9	962.4	968.6	969.2	966.3	962.0	965.0	964.8	966.0	964.0	965.43	2.244			
7	10:25:00	965.6	963.2	961.6	967.1	968.2	965.8	962.0	965.0	964.1	965.0	963.0	964.60	2.062			
8	10:25:30	967.3	965.4	963.3	969.3	970.2	966.8	963.0	966.0	965.0	967.0	965.0	966.30	2.203			
9	10:26:00	967.3	966.2	964.1	970.1	971.3	968.2	965.0	968.0	967.3	968.0	966.0	967.41	2.096			
10	10:26:30	967.3	966.4	964.1	970.1	970.2	968.2	964.0	968.0	966.7	965.0	965.0	966.28	2.239			
11	10:27:00	965.2	965.4	962.8	969.3	970.2	967.1	964.0	968.0	966.7	965.0	964.0	965.19	2.596			
12	10:27:30	964.7	964.2	961.6	968.6	970.2	965.7	962.0	967.0	965.1	964.0	964.0	965.31	2.197			
13	10:28:00	965.6	964.5	961.6	968.6	969.2	965.7	963.0	966.0	965.2	965.0	964.0	965.29	2.110			
14	10:28:30	965.6	964.8	962.4	968.6	969.2	965.8	963.0	966.0	964.8	964.0	963.0	964.48	1.731			
15	10:29:00	965.6	964.0	961.6	967.1	967.2	965.5	963.0	964.0	964.3	964.0	964.0	965.32	1.895			
16	10:29:30	965.6	965.1	962.4	968.6	968.2	965.8	963.0	965.0	964.8	966.0	967.0	967.77	2.453			
17	10:30:00	968.2	966.9	963.4	970.8	972.3	967.9	965.0	969.0	968.0	969.0	967.0	968.84	2.210			
18	10:30:30	969.1	968.3	965.8	971.6	973.3	969.3	966.0	969.0	968.8	969.0	969.0	970.62	1.926			
19	10:31:00	971.7	970.0	967.5	973.1	974.3	971.8	969.0	971.0	970.2	970.0	969.0	970.36	1.981			
20	10:31:30	970.8	969.4	966.6	972.3	974.3	971.0	969.0	971.0	970.6	970.0	968.0	968.70	1.599			
21	10:32:00	969.1	967.5	965.8	970.8	971.3	969.6	967.0	969.0	968.6	969.0	968.0	968.70	1.599			
1		1.0000	.9995	.9968	1.0025	1.0046	1.0005	.9961	1.0024	1.0003	.9982	.9992					
2		1.0003	.9993	.9971	1.0032	1.0054	1.0003	.9958	1.0010	.9998	1.0000	.9979					
3		.9996	.9993	.9964	1.0033	1.0049	1.0007	.9974	1.0006	.9997	.9995	.9985					
4		1.0013	.9994	.9964	1.0030	1.0050	1.0006	.9965	1.0006	1.0001	.9985	.9985					
5		1.0010	.9996	.9960	1.0035	1.0045	1.0005	.9978	1.0001	.9996	.9991	.9991					
6		1.0011	.9995	.9969	1.0033	1.0039	1.0009	.9964	.9996	.9994	1.0006	.9985					
7		1.0010	.9985	.9969	1.0026	1.0037	1.0012	.9973	1.0004	.9995	1.0004	.9983					
8		1.0010	.9991	.9969	1.0031	1.0040	1.0005	.9966	.9997	.9997	1.0007	.9987					
9		.9999	.9980	.9966	1.0028	1.0040	1.0008	.9975	1.0006	.9999	1.0006	.9985					
10		1.0002	.9992	.9969	1.0031	1.0032	1.0011	.9967	1.0009	1.0002	.9998	.9980					
11		.9993	.9991	.9964	1.0031	1.0041	1.0008	.9976	1.0018	1.0004	.9987	.9987					
12		.9995	.9990	.9963	1.0035	1.0052	1.0005	.9967	1.0019	.9999	.9988	.9986					
13		1.0003	.9992	.9962	1.0034	1.0040	1.0004	.9976	1.0007	.9999	.9997	.9986					
14		1.0003	.9995	.9970	1.0034	1.0040	1.0005	.9976	1.0007	.9995	.9987	.9987					
15		1.0012	.9995	.9970	1.0027	1.0028	1.0011	.9985	.9995	.9998	.9995	.9985					
16		1.0003	.9998	.9970	1.0034	1.0030	1.0005	.9976	.9997	.9997	1.0007	.9986					
17		1.0004	.9991	.9955	1.0031	1.0047	1.0001	.9971	1.0013	1.0002	.9992	.9992					
18		1.0003	.9994	.9969	1.0029	1.0046	1.0005	.9971	1.0002	1.0000	1.0002	.9981					
19		1.0011	.9994	.9968	1.0026	1.0038	1.0004	.9983	1.0006	.9996	.9994	.9983					
20		1.0004	.9990	.9961	1.0020	1.0041	1.0007	.9986	1.0007	1.0002	.9996	.9986					
21		1.0004	.9988	.9970	1.0022	1.0027	1.0009	.9982	1.0003	.9999	1.0003	.9993					
MEAN		1.0004	.9992	.9966	1.0030	1.0041	1.0006	.9973	1.0006	.9999	.9996	.9986					
S.D.		.0006	.0063	.0004	.0004	.0008	.0003	.0008	.0008	.0003	.0008	.0003					

TABLE 2-4

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER										MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20		
1	10:43:00	967.0	965.8	962.8	967.8	966.9	963.0	969.0	965.0	964.0	965.70	2.166	
2	10:43:30	967.0	965.0	962.6	968.6	966.5	962.0	968.0	964.0	964.0	965.28	2.379	
3	10:44:00	967.8	965.7	963.7	968.6	967.0	966.0	968.0	965.0	965.0	966.09	1.813	
4	10:44:30	968.7	967.6	965.4	970.1	968.8	966.0	970.0	966.0	966.0	967.62	1.843	
5	10:45:00	969.6	967.4	964.5	970.1	969.1	966.0	969.0	967.0	967.0	967.43	1.923	
6	10:45:30	966.1	963.6	962.0	965.6	967.4	964.0	967.0	966.0	964.0	965.08	1.776	
7	10:46:00	965.2	963.1	960.3	965.6	965.1	962.0	964.0	965.0	962.0	963.59	1.844	
8	10:46:30	966.1	964.4	962.8	966.3	966.4	963.0	966.0	965.0	964.0	964.89	1.412	
9	10:47:00	967.0	966.1	964.1	967.1	968.0	964.0	968.0	968.0	965.0	966.37	1.644	
10	10:47:30	967.0	965.3	963.3	967.8	967.7	964.0	968.0	967.0	965.0	966.12	1.760	
11	10:48:00	967.8	965.9	963.7	967.8	967.7	965.0	969.0	967.0	965.0	966.54	1.732	
12	10:48:30	967.8	965.5	962.8	967.8	968.0	965.0	968.0	967.0	965.0	966.32	1.838	
13	10:49:00	965.2	963.6	961.2	965.6	965.1	963.0	966.0	964.0	962.0	963.97	1.666	
14	10:49:30	966.1	963.9	962.0	965.6	965.8	963.0	967.0	966.0	964.0	964.82	1.663	
15	10:50:00	966.1	963.9	962.0	965.6	965.5	962.0	966.0	965.0	963.0	964.34	1.664	
16	10:50:30	965.2	963.7	962.0	966.8	965.7	962.0	966.0	965.0	963.0	964.16	1.535	
17	10:51:00	967.0	966.5	964.5	967.8	968.3	965.0	970.0	967.0	965.0	966.79	1.476	
18	10:51:30	967.8	966.5	964.5	967.8	968.3	965.0	970.0	967.0	965.0	966.88	1.814	
19	10:52:00	968.7	967.4	965.4	969.3	968.9	965.0	969.0	968.0	966.0	967.52	1.660	
20	10:52:30	971.3	967.0	967.1	971.6	970.6	967.0	972.0	970.0	968.0	969.62	1.928	
21	10:53:00	971.3	969.0	967.1	970.8	970.9	967.0	971.0	970.0	968.0	969.44	1.728	
1		1.0013	1.0001	.9970	1.0022	1.0012	.9972	1.0034	.9993	.9982			
2		1.0018	.9997	.9970	1.0034	1.0013	.9966	1.0020	.9987	.9987			
3		1.0018	.9996	.9975	1.0026	1.0009	.9978	1.0020	.9989	.9989			
4		1.0011	1.0000	.9977	1.0026	1.0012	.9983	1.0025	.9983	.9983			
5		1.0020	.9998	.9968	1.0025	1.0015	.9983	1.0014	.9993	.9983			
6		1.0011	.9985	.9968	1.0005	1.0024	.9989	1.0020	1.0010	.9989			
7		1.0017	.9995	.9966	1.0021	1.0016	.9984	1.0004	1.0015	.9984			
8		1.0013	.9995	.9978	1.0015	1.0016	.9980	1.0012	1.0001	.9991			
9		1.0007	.9997	.9977	1.0008	1.0017	.9976	1.0017	1.0017	.9986			
10		1.0009	.9991	.9971	1.0017	1.0016	.9978	1.0019	1.0009	.9988			
11		1.0013	.9993	.9971	1.0013	1.0012	.9984	1.0025	1.0005	.9984			
12		1.0015	.9991	.9964	1.0015	1.0017	.9986	1.0017	1.0007	.9986			
13		1.0013	.9996	.9971	1.0017	1.0012	.9990	1.0021	1.0007	.9980			
14		1.0013	.9990	.9971	1.0008	1.0010	.9981	1.0023	1.0012	.9991			
15		1.0018	.9995	.9976	1.0013	1.0012	.9976	1.0017	1.0007	.9986			
16		1.0011	.9995	.9978	1.0007	1.0016	.9978	1.0019	1.0009	.9988			
17		1.0002	.9997	.9976	1.0010	1.0016	.9981	1.0023	1.0002	.9992			
18		1.0010	.9996	.9975	1.0010	1.0015	.9991	1.0032	1.0001	.9981			
19		1.0012	.9999	.9978	1.0018	1.0014	.9974	1.0015	1.0005	.9984			
20		1.0017	.9994	.9974	1.0020	1.0010	.9973	1.0025	1.0004	.9983			
21		1.0019	.9995	.9974	1.0014	1.0015	.9975	1.0016	1.0006	.9985			
MEAN		1.0013	.9995	.9973	1.0016	1.0014	.9979	1.0020	1.0003	.9986			
S.D.		.0004	.0004	.0004	.0008	.0003	.0006	.0007	.0009	.0003			

TABLE 2-5

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 5: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																	MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24							
1	11:05:00	967.9	969.1	965.6	971.7	969.2	966.0	970.0		969.0		967.0	968.39	1.961						
2	11:05:30	967.9	967.9	964.3	970.2	969.0	965.0	968.0		969.0		966.0	967.48	1.972						
3	11:06:00	967.9	967.5	965.2	970.9	969.1	965.0	970.0		968.0		967.0	967.84	1.984						
4	11:06:30	966.1	966.0	963.5	970.2	967.8	964.4	968.0		967.0		965.0	966.44	2.059						
5	11:07:00	966.1	965.8	962.6	969.4	966.6	964.0	968.0		965.0		964.0	965.72	2.116						
6	11:07:30	967.0	966.6	964.3	969.4	967.6	964.0	968.0		968.0		965.0	966.64	1.854						
7	11:08:00	967.0	966.5	964.3	969.4	967.6	965.0	968.0		968.0		965.0	966.76	1.700						
8	11:08:30	967.9	967.8	965.2	970.2	968.1	965.0	969.0		968.0		966.0	967.47	1.739						
9	11:09:00	970.4	970.3	968.5	973.9	971.2	967.0	971.0		971.0		968.0	970.14	2.040						
10	11:09:30	971.3	970.6	968.5	974.7	973.7	968.0	972.0		971.0		969.0	970.76	2.066						
11	11:10:00	971.3	970.3	968.5	973.9	972.2	969.0	972.0		972.0		969.0	970.91	1.824						
12	11:10:30	971.3	970.8	967.7	973.9	971.9	969.0	972.0		971.0		969.0	970.73	1.891						
13	11:11:00	972.2	971.4	968.5	974.7	972.7	969.0	972.0		972.0		970.0	971.39	1.939						
14	11:11:30	970.4	970.0	968.5	973.9	971.5	968.0	971.0		970.0		969.0	970.26	1.778						
15	11:12:00	972.2	970.2	968.5	974.7	972.2	969.0	973.0		970.0		969.0	970.98	2.135						
16	11:12:30	969.6	968.8	966.9	972.4	970.4	967.0	972.0		969.0		968.0	969.34	1.477						
17	11:13:00	967.9	966.2	965.2	970.2	968.0	965.0	968.0		967.0		965.0	966.94	1.764						
18	11:13:30	967.0	966.1	964.3	970.2	968.0	965.0	967.0		968.0		965.0	966.73	1.861						
19	11:14:00	969.6	968.5	966.9	971.7	969.3	967.0	970.0		969.0		967.0	968.78	1.618						
20	11:14:30	968.7	968.4	966.9	972.4	970.6	967.0	971.0		970.0		967.0	969.11	1.996						
21	11:15:00	971.3	970.2	969.4	974.7	971.9	969.0	975.0		971.0		970.0	971.17	1.821						
1		9995	1.0007	9971	1.0034	1.0008	9975	1.0017		1.0006		9986								
2		1.0004	1.0004	9967	1.0028	1.0016	9974	1.0005		1.0016		9983								
3		1.0001	9996	9973	1.0032	1.0013	9971	1.0022		1.0022		9991								
4		9996	9995	9970	1.0039	1.0014	9979	1.0016		1.0006		9985								
5		1.0004	1.0001	9968	1.0038	1.0009	9982	1.0024		9993		9982								
6		1.0004	9999	9976	1.0028	1.0010	9973	1.0014		1.0014		9983								
7		1.0003	9997	9975	1.0027	1.0007	9982	1.0013		1.0013		9982								
8		1.0004	1.0003	9977	1.0028	1.0011	9975	1.0014		1.0014		9985								
9		1.0003	1.0002	9983	1.0039	1.0011	9968	1.0009		1.0009		9978								
10		1.0006	9998	9977	1.0041	1.0010	9972	1.0013		1.0013		9982								
11		1.0004	9994	9975	1.0031	1.0013	9980	1.0011		1.0011		9980								
12		1.0006	1.0001	9969	1.0033	1.0012	9982	1.0013		1.0013		9982								
13		1.0008	1.0000	9970	1.0034	1.0013	9975	1.0006		1.0006		9986								
14		1.0001	9997	9982	1.0038	1.0013	9977	1.0008		9997		9987								
15		1.0013	9992	9974	1.0038	1.0013	9980	1.0021		9990		9980								
16		1.0003	9994	9975	1.0032	1.0011	9976	1.0027		9996		9986								
17		1.0010	9992	9962	1.0034	1.0011	9980	1.0011		1.0011		9980								
18		1.0003	9993	9975	1.0036	1.0013	9982	1.0003		1.0013		9982								
19		1.0008	9997	9981	1.0030	1.0015	9978	1.0013		1.0002		9982								
20		9996	9993	9977	1.0034	1.0015	9978	1.0019		1.0009		9978								
21		1.0001	9990	9982	1.0034	1.0008	9978	1.0019		9998		9988								
MEAN		1.0003	9998	9975	1.0034	1.0011	9977	1.0014		1.0004		9983								
S.D.		.0004	.0005	.0005	.0004	.0003	.0004	.0006		.0007		.0003								



TABLE 2-6

SECOND INTERCOMPARISON - MAY 2, 1979  
RUN 6: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER										MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24
1	11:25:00	967.9	967.2	963.9	969.1	971.9	967.6	964.0	968.0	967.0	967.0	966.0	967.23
2	11:25:30	967.8	967.0	963.0	969.8	972.9	968.5	965.0	968.0	967.2	968.0	966.0	967.45
3	11:26:00	966.1	965.5	963.0	967.6	971.9	967.1	963.0	966.0	965.5	967.0	965.0	966.15
4	11:26:30	967.0	966.3	963.0	969.1	971.9	967.8	964.0	967.0	966.2	967.0	966.0	966.85
5	11:27:00	967.8	967.0	963.9	969.1	970.9	968.3	965.0	966.0	966.6	969.0	966.0	967.24
6	11:27:30	967.0	966.5	965.1	966.0	970.9	967.9	965.0	967.0	966.5	968.0	966.0	966.97
7	11:28:00	967.8	967.4	965.1	969.8	971.9	968.6	965.0	968.0	967.0	968.0	966.0	967.69
8	11:28:30	967.6	966.4	966.4	970.6	972.9	970.2	968.0	969.0	968.1	970.0	968.0	969.20
9	11:29:00	970.4	969.1	966.4	971.3	972.9	970.8	968.0	971.0	968.7	971.0	969.0	969.87
10	11:29:30	970.4	969.3	967.3	972.1	973.9	970.8	968.0	971.0	969.1	970.0	969.0	970.00
11	11:30:00	970.4	969.8	967.3	971.3	973.9	971.2	968.0	971.0	969.4	971.0	969.0	970.21
12	11:30:30	971.3	969.9	967.7	972.1	972.9	971.5	968.0	970.0	969.7	971.0	969.0	970.28
13	11:31:00	969.6	968.2	966.4	970.6	970.9	970.3	967.0	970.0	968.7	970.0	968.0	969.06
14	11:31:30	968.7	967.0	965.4	969.8	969.9	969.4	965.0	969.0	967.6	969.0	967.0	968.00
15	11:32:00	967.8	967.5	965.6	969.8	969.9	969.0	966.0	969.0	967.4	969.0	967.0	967.91
16	11:32:30	967.8	966.3	964.7	969.1	970.9	968.2	965.0	968.0	967.0	967.0	966.0	967.27
17	11:33:00	968.7	967.6	965.1	970.6	971.9	969.2	965.0	969.0	967.5	969.0	967.0	968.24
18	11:33:30	967.8	966.7	965.6	969.1	972.9	968.1	965.0	969.0	967.0	967.0	966.0	967.65
19	11:34:00	967.8	966.3	964.7	969.1	971.9	968.0	964.0	968.0	966.7	968.0	966.0	967.33
20	11:34:30	967.0	966.2	963.9	968.3	969.9	967.3	964.0	968.0	966.4	968.0	965.0	966.55
21	11:35:00	967.0	965.8	963.9	968.3	971.9	968.2	964.0	968.0	966.6	967.0	965.0	966.88

1	1.0006	1.0000	.9966	1.0019	1.0048	1.0004	.9967	1.0008	.9998	.9998	.9998	.9987	.9987
2	1.0002	.9993	.9941	1.0022	1.0054	1.0009	.9973	1.0004	.9995	.9995	1.0004	.9983	.9983
3	.9999	.9993	.9947	1.0015	1.0059	1.0010	.9967	.9998	.9993	.9993	1.0009	.9988	.9988
4	1.0002	.9994	.9940	1.0023	1.0052	1.0016	.9971	1.0002	.9993	.9993	1.0002	.9991	.9991
5	1.0006	.9998	.9946	1.0019	1.0038	1.0011	.9977	.9987	.9993	.9993	1.0018	.9987	.9987
6	1.0000	.9995	.9981	.9998	1.0041	1.0010	.9980	1.0000	.9995	.9995	1.0011	.9990	.9990
7	1.0001	.9997	.9973	1.0022	1.0043	1.0009	.9972	1.0003	.9993	.9993	1.0003	.9983	.9983
8	1.0004	.9992	.9971	1.0014	1.0033	1.0010	.9988	.9998	.9989	.9989	1.0008	.9988	.9988
9	1.0005	.9992	.9964	1.0015	1.0031	1.0010	.9981	1.0012	.9993	.9993	1.0012	.9971	.9971
10	1.0003	.9992	.9971	1.0021	1.0039	1.0007	.9979	1.0009	.9990	.9990	.9999	.9989	.9989
11	1.0002	.9996	.9970	1.0011	1.0038	1.0010	.9977	1.0008	.9992	.9992	1.0008	.9988	.9988
12	1.0010	.9996	.9973	1.0019	1.0027	1.0013	.9976	.9997	.9994	.9994	1.0007	.9987	.9987
13	1.0006	.9991	.9975	1.0016	1.0019	1.0013	.9979	1.0010	.9999	.9999	1.0010	.9989	.9989
14	1.0007	.9990	.9975	1.0019	1.0020	1.0014	.9969	1.0010	.9996	.9996	1.0010	.9990	.9990
15	.9999	.9996	.9974	1.0020	1.0021	1.0011	.9980	1.0011	.9985	.9985	1.0001	.9991	.9991
16	1.0005	.9990	.9973	1.0019	1.0037	1.0010	.9977	1.0008	.9997	.9997	.9997	.9987	.9987
17	1.0005	.9993	.9968	1.0024	1.0038	1.0010	.9967	1.0008	.9992	.9992	1.0008	.9987	.9987
18	1.0002	.9990	.9979	1.0015	1.0054	1.0005	.9973	1.0014	.9993	.9993	.9993	.9983	.9983
19	1.0035	.9989	.9973	1.0018	1.0047	1.0008	.9966	1.0007	.9994	.9994	1.0007	.9986	.9986
20	1.0005	.9996	.9973	1.0018	1.0035	1.0008	.9974	1.0015	.9998	.9998	.9994	.9984	.9984
21	1.0001	.9989	.9969	1.0015	1.0052	1.0014	.9970	1.0012	.9997	.9997	1.0001	.9981	.9981
MEAN		.9993	.9971	1.0017	1.0040	1.0010	.9974	1.0036	.9994	.9994	1.0005	.9987	.9987
S.D.		.0003	.0005	.0005	.0012	.0003	.0006	.0007	.0003	.0003	.0006	.0003	.0003

TABLE 2-7

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	11:46:00	964.8	965.1	961.9	966.6	969.9	965.7	961.0	966.0	964.3	965.0	963.0	964.85	2.407
2	11:46:30	964.5	966.1	963.6	968.0	970.9	967.9	964.0	968.0	966.1	967.0	965.0	966.72	2.140
3	11:47:00	966.5	965.6	963.6	968.0	970.9	967.5	964.0	967.0	965.5	966.0	965.0	966.34	2.046
4	11:47:30	966.5	965.9	962.7	968.0	969.9	967.4	963.0	968.0	965.8	965.0	965.0	966.10	2.255
5	11:48:00	967.4	966.9	965.3	969.6	970.9	968.3	965.0	968.0	966.5	967.0	966.0	967.35	1.777
6	11:48:30	967.3	966.8	965.3	969.6	970.9	969.5	965.0	968.0	967.0	969.0	966.0	967.67	1.904
7	11:49:00	966.5	966.3	964.4	968.8	969.9	968.2	964.0	967.0	966.4	969.0	965.0	966.86	1.943
8	11:49:30	965.7	964.9	963.1	967.3	969.9	966.9	964.0	968.0	965.8	967.0	964.0	966.05	2.011
9	11:50:00	964.8	964.6	962.7	967.3	968.9	964.4	963.0	967.0	965.2	966.0	964.0	965.45	1.892
10	11:50:30	963.9	962.6	961.0	965.8	964.9	964.2	961.0	966.0	962.9	964.0	962.0	963.66	1.991
11	11:51:00	963.9	963.6	961.9	966.6	968.9	965.0	962.0	967.0	963.8	964.0	963.0	964.52	2.178
12	11:51:30	962.2	961.6	960.2	965.1	967.9	963.6	968.0	964.0	962.1	963.0	961.0	962.79	2.314
13	11:52:00	959.6	959.1	958.5	962.8	964.8	962.1	958.0	961.0	960.5	962.0	959.0	940.67	2.092
14	11:52:30	957.9	956.9	955.9	960.6	962.8	959.7	956.0	960.0	958.2	959.0	957.0	958.35	2.123
15	11:53:00	958.7	958.2	957.6	962.1	964.8	960.5	955.0	959.0	958.1	961.0	958.0	958.95	2.187
16	11:53:30	959.4	959.8	958.5	962.8	964.9	961.3	957.0	964.0	960.6	961.0	959.0	959.89	2.774
17	11:54:00	959.4	959.8	958.5	962.8	964.9	961.3	957.0	964.0	960.6	961.0	959.0	940.95	2.602
18	11:54:30	960.5	960.2	959.3	963.6	966.9	961.9	958.0	964.0	961.2	961.0	959.0	961.29	2.602
19	11:55:00	960.5	959.9	959.3	963.6	966.9	961.9	957.0	962.0	961.1	961.0	959.0	961.11	2.600
20	11:55:30	960.5	959.9	959.3	963.6	966.9	961.6	957.0	962.0	960.5	960.0	959.0	960.84	2.376
21	11:56:00	961.3	961.7	960.2	964.3	965.8	963.1	959.0	963.0	962.4	962.0	960.0	962.07	1.971
1		1.0000	1.0003	.9969	1.0018	1.0052	1.0009	.9960	1.0012	.9994	1.0002	.9981		
2		.9998	.9994	.9972	1.0022	1.0043	1.0012	.9972	1.0013	.9994	1.0003	.9982		
3		1.0002	.9992	.9972	1.0018	1.0043	1.0012	.9976	1.0007	.9991	.9997	.9986		
4		1.0003	.9997	.9964	1.0027	1.0038	1.0013	.9967	1.0019	.9996	.9988	.9988		
5		1.0000	.9995	.9979	1.0023	1.0037	1.0019	.9976	1.0007	.9991	.9996	.9986		
6		.9996	.9991	.9975	1.0020	1.0033	1.0019	.9972	1.0003	.9993	1.0014	.9983		
7		.9996	.9994	.9975	1.0020	1.0031	1.0014	.9970	1.0001	.9995	1.0022	.9981		
8		.9996	.9988	.9969	1.0013	1.0040	1.0009	.9979	1.0020	.9997	1.0010	.9979		
9		.9993	.9991	.9972	1.0019	1.0036	1.0010	.9975	1.0014	.9997	1.0006	.9985		
10		1.0002	.9989	.9972	1.0022	1.0034	1.0006	.9972	1.0024	.9992	1.0003	.9983		
11		.9994	.9990	.9973	1.0022	1.0045	1.0005	.9974	1.0026	.9993	.9995	.9984		
12		.9994	.9988	.9973	1.0024	1.0053	1.0008	.9971	1.0013	.9993	1.0002	.9981		
13		.9989	.9984	.9977	1.0022	1.0043	1.0015	.9972	1.0003	.9998	1.0014	.9983		
14		.9993	.9983	.9972	1.0021	1.0044	1.0012	.9973	1.0015	.9996	1.0005	.9984		
15		.9997	.9992	.9986	1.0024	1.0040	1.0004	.9959	1.0009	.9991	1.0001	.9980		
16		.9988	.9985	.9974	1.0023	1.0051	1.0006	.9970	1.0022	.9994	1.0001	.9980		
17		.9986	.9980	.9974	1.0019	1.0032	1.0004	.9959	1.0032	.9996	1.0000	.9980		
18		.9992	.9989	.9979	1.0024	1.0058	1.0002	.9964	1.0028	.9996	.9987	.9976		
19		.9994	.9987	.9981	1.0026	1.0060	1.0002	.9957	1.0009	1.0000	.9999	.9978		
20		.9996	.9990	.9984	1.0029	1.0052	1.0008	.9960	1.0012	.9996	.9991	.9981		
21		.9992	.9994	.9981	1.0023	1.0039	1.0011	.9968	1.0010	1.0003	.9999	.9978		
MEAN		.9995	.9991	.9975	1.0022	1.0045	1.0010	.9969	1.0014	.9995	1.0003	.9982		
S.D.		.0005	.0005	.0005	.0003	.0009	.0004	.0004	.0009	.0003	.0010	.0003		

TABLE 2-8

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24						
1	12:10:00	957.9	958.0	954.0	958.3		957.9	954.0	961.0	957.1	955.0		956.0				956.92	2.192	
2	12:10:30	957.0	956.4	952.3	957.5		958.0	954.0	959.0	956.5	955.0		955.0				956.07	2.008	
3	12:11:00	957.0	956.0	954.0	957.5		957.3	953.0	958.0	955.5	954.0		954.0				955.63	1.790	
4	12:11:30	953.5	953.9	951.4	955.3		956.0	956.0	956.0	954.5	953.0		953.0				953.96	1.489	
5	12:12:00	953.5	952.9	950.6	954.5		954.3	951.0	954.0	952.0	953.0		951.0				952.68	1.451	
6	12:12:30	953.5	953.4	950.6	955.3		953.9	953.0	956.0	952.4	952.0		952.0				952.91	1.902	
7	12:13:00	955.3	955.1	952.3	956.8		955.7	953.0	958.0	954.8	953.0		954.0				954.80	1.788	
8	12:13:30	954.4	953.5	949.7	956.0		954.9	951.0	958.0	953.3	952.0		952.0				953.48	2.461	
9	12:14:00	954.4	953.6	951.4	955.3		954.5	950.0	955.0	953.1	953.0		952.0				953.23	1.696	
10	12:14:30	955.3	954.2	952.3	956.0		955.8	952.0	957.0	954.2	954.0		954.0				954.38	1.648	
11	12:15:00	954.4	953.9	952.7	956.0		955.5	953.0	956.0	953.9	953.0		953.0				954.14	1.268	
12	12:15:30	954.4	952.8	952.3	955.3		954.9	952.0	956.0	953.1	954.0		951.0				953.58	1.600	
13	12:16:00	953.5	952.6	951.4	955.3		954.7	951.0	957.0	953.1	953.0		952.0				953.36	1.852	
14	12:16:30	953.5	953.0	951.4	955.3		954.0	951.0	956.0	952.9	951.0		952.0				953.01	1.736	
15	12:17:00	953.5	952.5	951.4	955.3		954.0	951.0	956.0	953.1	951.0		952.0				952.98	1.743	
16	12:17:30	954.4	953.6	951.4	956.0		954.9	952.0	957.0	953.6	952.0		953.0				953.79	1.814	
17	12:18:00	953.5	952.0	951.0	954.5		954.2	951.0	953.0	952.5	954.0		951.0				952.67	1.378	
18	12:18:30	952.7	951.2	949.7	953.0		953.0	950.0	954.0	951.4	952.0		950.0				951.70	1.486	
19	12:19:00	953.5	952.1	951.4	953.8		953.2	950.0	956.0	952.4	953.0		951.0				952.64	1.679	
20	12:19:30	948.3	947.5	945.5	948.5		950.0	946.0	951.0	949.2	948.0		948.0				948.20	1.663	
21	12:20:00	940.6	941.0	938.7	941.8		943.3	942.0	944.0	944.2	942.0		942.0				941.96	1.647	
1		1.0010	1.0011	.9969	1.0014		1.0010	.9969	1.0043	1.0002	.9980		.9990						
2		1.0010	1.0003	.9961	1.0015		1.0020	.9978	1.0031	1.0004	.9989		.9989						
3		1.0014	1.0004	.9983	1.0020		1.0017	.9972	1.0025	.9999	.9983		.9983						
4		.9995	.9999	.9973	1.0014		1.0021	.9990	1.0021	1.0006	.9990		.9990						
5		1.0009	1.0002	.9978	1.0019		1.0017	.9982	1.0014	.9993	1.0003		.9982						
6		1.0006	1.0005	.9976	1.0025		1.0010	.9969	1.0032	.9995	.9990		.9990						
7		1.0005	1.0003	.9974	1.0021		1.0009	.9981	1.0034	1.0000	.9981		.9981						
8		1.0010	1.0000	.9960	1.0026		1.0015	.9974	1.0047	.9998	.9984		.9984						
9		1.0012	1.0004	.9981	1.0022		1.0013	.9966	1.0019	.9999	.9998		.9998						
10		1.0010	.9998	.9978	1.0017		1.0015	.9975	1.0027	.9998	.9996		.9996						
11		1.0003	.9997	.9985	1.0019		1.0014	.9988	1.0019	.9997	.9988		.9988						
12		1.0009	.9992	.9987	1.0018		1.0014	.9983	1.0025	.9995	1.0004		.9973						
13		1.0001	.9992	.9979	1.0020		1.0014	.9975	1.0038	.9997	.9996		.9986						
14		1.0005	1.0000	.9983	1.0024		1.0010	.9979	1.0031	.9999	.9979		.9989						
15		1.0005	.9995	.9983	1.0024		1.0011	.9979	1.0032	1.0001	.9979		.9990						
16		1.0006	.9998	.9975	1.0023		1.0012	.9981	1.0034	.9998	.9981		.9992						
17		1.0009	.9993	.9982	1.0019		1.0016	.9982	1.0003	.9998	1.0014		.9982						
18		1.0011	.9995	.9979	1.0014		1.0014	.9982	1.0024	.9997	1.0003		.9982						
19		1.0009	.9994	.9987	1.0012		1.0006	.9972	1.0035	.9997	1.0004		.9983						
20		1.0001	.9993	.9972	1.0003		1.0019	.9977	1.0030	1.0011	.9998		.9998						
21		.9986	.9990	.9965	.9998		1.0014	1.0000	1.0022	1.0024	1.0000		1.0000						
MEAN		1.0006	.9999	.9977	1.0018		1.0014	.9979	1.0028	1.0000	.9992		.9987						
S.D.		.0006	.0005	.0008	.0007		.0004	.0003	.0010	.0007	.0010		.0006						

TABLE 2-9

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 9: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24						
1	13:12:00	975.7	975.5	973.1	976.6	982.9	978.1	975.0	960.0	977.1	977.0	976.0	976.0	977.0	977.0	977.0	976.0	977.00	2.633
2	13:12:30	976.6	975.2	975.6	976.6	981.9	976.8	973.0	977.0	976.8	976.0	976.0	976.0	977.0	977.0	977.0	976.0	976.14	2.285
3	13:13:00	978.3	977.4	974.8	978.8	983.9	978.7	976.0	981.0	978.7	977.0	977.0	977.0	978.0	978.0	978.0	977.0	978.53	2.469
4	13:13:30	979.2	977.2	976.5	978.8	983.9	978.7	976.0	979.0	975.7	976.0	976.0	976.0	977.0	977.0	977.0	976.0	977.73	2.641
5	13:14:00	980.9	979.5	978.2	980.3	984.9	981.5	977.0	981.0	979.1	982.0	982.0	982.0	983.0	983.0	983.0	978.0	980.22	2.212
6	13:14:30	980.9	979.3	979.0	980.3	983.9	982.1	977.0	980.0	978.9	983.0	983.0	983.0	984.0	984.0	984.0	978.0	980.22	2.114
7	13:15:00	983.5	982.2	980.7	983.3	985.9	984.9	981.0	984.0	982.3	986.0	986.0	986.0	987.0	987.0	987.0	982.0	983.25	1.818
8	13:15:30	981.8	981.2	979.0	981.1	983.9	983.1	980.0	984.0	981.7	983.0	983.0	983.0	984.0	984.0	984.0	981.0	981.80	1.580
9	13:16:00	977.4	976.9	974.8	977.3	978.9	979.1	976.0	980.0	977.4	979.0	979.0	979.0	980.0	980.0	980.0	977.0	977.62	1.519
10	13:16:30	974.8	974.7	972.3	975.1	978.9	975.7	972.0	978.0	974.3	976.0	976.0	976.0	977.0	977.0	977.0	974.0	975.07	2.087
11	13:17:00	975.7	974.7	973.1	975.1	978.9	976.0	972.0	978.0	974.6	976.0	976.0	976.0	977.0	977.0	977.0	974.0	975.28	1.992
12	13:17:30	973.1	971.8	969.7	972.8	976.9	974.5	971.0	975.0	973.6	973.0	973.0	973.0	974.0	974.0	974.0	972.0	973.04	1.980
13	13:18:00	970.5	970.4	968.0	972.1	975.9	972.5	969.0	973.0	971.8	972.0	972.0	972.0	973.0	973.0	973.0	970.0	971.38	2.147
14	13:18:30	967.9	967.0	964.6	968.3	970.2	968.9	965.0	970.0	967.7	969.0	969.0	969.0	970.0	970.0	970.0	966.0	967.75	1.967
15	13:19:00	962.7	961.3	959.5	962.3	964.8	964.4	960.0	964.0	962.6	964.0	964.0	964.0	965.0	965.0	965.0	961.0	962.47	1.799
16	13:19:30	961.0	960.5	959.5	962.3	964.8	963.1	959.0	963.0	961.2	964.0	964.0	964.0	965.0	965.0	965.0	960.0	961.67	1.900
17	13:20:00	962.7	962.3	960.4	963.1	965.8	964.0	960.0	964.0	962.3	965.0	965.0	965.0	966.0	966.0	966.0	961.0	962.47	2.016
18	13:20:30	962.7	961.6	959.5	962.3	964.8	964.1	960.0	965.0	962.2	964.0	964.0	964.0	965.0	965.0	965.0	961.0	962.47	1.866
19	13:21:00	964.5	963.8	961.2	965.3	963.8	964.1	960.0	966.0	962.3	963.0	963.0	963.0	964.0	964.0	964.0	962.0	963.27	1.787
20	13:21:30	961.9	961.8	959.5	962.8	962.8	963.4	959.0	965.0	961.8	962.0	962.0	962.0	963.0	963.0	963.0	961.0	962.00	1.766
21	13:22:00	957.1	957.1	955.4	959.3	959.8	958.6	955.0	961.0	957.0	957.0	957.0	957.0	958.0	958.0	958.0	956.0	957.69	1.897
1		9987	9985	9960	9996	1.0040	1.0011	9980	1.0031	1.0001	1.0000	1.0000	1.0000	9990	9990	9990	9990		
2		1.0005	9990	9995	1.0005	1.0059	1.0007	9968	1.0009	9986	9999	9999	9999	9978	9978	9978	9978		
3		1.0000	9991	9964	1.0005	1.0057	1.0004	9976	1.0027	1.0004	9986	9986	9986	9986	9986	9986	9986		
4		1.0015	9995	9987	1.0011	1.0063	1.0010	9962	1.0013	9979	9982	9982	9982	9982	9982	9982	9982		
5		1.0007	9993	9979	1.0001	1.0048	1.0013	9967	1.0008	9989	1.0018	1.0018	1.0018	9977	9977	9977	9977		
6		1.0007	9991	9988	1.0001	1.0038	1.0019	9967	9998	9987	1.0028	1.0028	1.0028	9977	9977	9977	9977		
7		1.0002	9989	9974	1.0000	1.0027	1.0017	9977	1.0008	9990	1.0028	1.0028	1.0028	9987	9987	9987	9987		
8		1.0000	9994	9971	9993	1.0021	1.0013	9982	1.0022	9999	1.0012	1.0012	1.0012	9992	9992	9992	9992		
9		9998	9993	9971	9997	1.0013	1.0015	9983	1.0024	9998	1.0014	1.0014	1.0014	9994	9994	9994	9994		
10		9997	9996	9972	1.0000	1.0039	1.0006	9968	1.0030	9992	1.0010	1.0010	1.0010	9989	9989	9989	9989		
11		1.0004	9994	9978	9998	1.0037	1.0007	9966	1.0028	9993	1.0007	1.0007	1.0007	9987	9987	9987	9987		
12		1.0001	9987	9966	9998	1.0040	1.0015	9975	1.0020	1.0006	1.0000	1.0000	1.0000	9989	9989	9989	9989		
13		9991	9990	9965	1.0007	1.0047	1.0012	9975	1.0017	1.0004	1.0006	1.0006	1.0006	9986	9986	9986	9986		
14		1.0002	9992	9967	1.0006	1.0032	1.0012	9972	1.0023	1.0000	1.0013	1.0013	1.0013	9982	9982	9982	9982		
15		1.0003	9988	9970	9999	1.0025	1.0021	9975	1.0016	1.0002	1.0016	1.0016	1.0016	9985	9985	9985	9985		
16		9993	9988	9977	1.0007	1.0033	1.0015	9972	1.0014	9995	1.0024	1.0024	1.0024	9983	9983	9983	9983		
17		1.0000	9996	9976	1.0004	1.0032	1.0014	9972	1.0014	9996	1.0024	1.0024	1.0024	9982	9982	9982	9982		
18		1.0002	9991	9969	9998	1.0024	1.0017	9974	1.0026	9997	1.0016	1.0016	1.0016	9985	9985	9985	9985		
19		1.0013	1.0005	9978	1.0021	1.0005	1.0009	9966	1.0028	9990	1.0016	1.0016	1.0016	9987	9987	9987	9987		
20		9999	9998	9974	1.0019	1.0008	1.0015	9969	1.0031	9998	1.0000	1.0000	1.0000	9990	9990	9990	9990		
21		1.0007	9994	9976	1.0017	1.0022	1.0009	9972	1.0035	9993	1.0013	1.0013	1.0013	9982	9982	9982	9982		
MEAN		1.0002	9992	9974	1.0004	1.0035	1.0012	9972	1.0020	9995	1.0008	1.0008	1.0008	9985	9985	9985	9985		
S.D.		.0007	.0004	.0008	.0003	.0017	.0004	.0006	.0010	.0007	.0013	.0013	.0013	.0005	.0005	.0005	.0005		

TABLE 2-10

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	14:57:00	938.2	938.4	935.9	941.7	944.6	940.4	938.0	940.0	939.2			937.0	2.497
2	14:57:30	938.2	937.8	935.9	941.0	943.6	940.4	937.0	939.0	938.8			937.0	2.277
3	14:58:00	939.0	937.8	936.8	941.0	942.6	940.2	937.0	939.0	938.9			937.0	1.904
4	14:58:30	940.7	940.4	938.5	943.2	944.6	942.0	939.0	941.0	940.5			939.0	1.933
5	14:59:00	940.7	940.0	937.6	942.5	944.6	941.7	939.0	942.0	940.7			939.0	2.026
6	14:59:30	939.9	939.6	937.6	942.5	944.3	941.2	938.0	941.0	940.1			938.0	2.125
7	15:00:00	938.2	937.6	935.9	941.7	942.6	940.2	937.0	939.0	938.7			937.0	2.149
8	15:00:30	939.9	939.9	938.5	944.0	945.6	941.3	937.0	942.0	940.2			938.0	2.672
9	15:04:00	933.8	932.2	930.9	938.0	934.6	933.0	930.0	932.0	932.9			931.0	2.285
10	15:04:30	935.6	933.9	932.5	940.2	937.6	934.5	932.0	935.0	934.0			932.0	2.585
11	15:05:00	937.3	935.6	934.2	941.7	938.6	937.0	934.0	936.0	936.9			934.0	2.388
12	15:05:30	938.2	937.7	936.8	944.0	942.6	938.7	935.0	939.0	938.9			937.0	2.683
13	15:06:00	938.2	937.7	936.8	943.2	940.6	938.9	936.0	937.0	938.7			937.0	2.134
14	15:06:30	936.4	935.6	934.2	941.7	939.6	937.4	935.0	936.0	937.3			935.0	2.308
15	15:07:00	934.7	934.4	932.5	939.5	938.6	935.7	933.0	933.0	935.3			933.0	2.415
16	15:07:30	933.0	932.8	931.7	937.2	937.6	934.8	932.0	933.0	934.0			932.0	2.114
17	15:08:00	933.8	932.5	931.7	937.2	936.6	934.6	931.0	932.0	933.1			931.0	2.199
18	15:08:30	933.0	931.6	930.0	935.7	935.6	934.2	931.0	932.0	932.5			931.0	1.959
19	15:09:00	932.1	930.6	929.2	933.5	935.6	932.4	930.0	931.0	931.1			930.0	1.914
20	15:09:30	931.2	930.1	929.2	933.5	934.6	931.7	928.0	931.0	930.1			928.0	2.158
21	15:10:00	931.2	929.1	929.2	933.5	934.6	932.0	929.0	932.0	930.9			924.0	2.964
1		.9988	.9990	.9963	1.0025	1.0056	1.0011	.9986	1.0007	.9999			.9975	
2		.9993	.9989	.9968	1.0023	1.0050	1.0016	.9980	1.0001	.9999			.9980	
3		1.0001	.9988	.9977	1.0022	1.0039	1.0014	.9979	1.0001	1.0000			.9979	
4		.9998	.9995	.9975	1.0025	1.0039	1.0012	.9980	1.0001	.9996			.9980	
5		.9999	.9992	.9966	1.0018	1.0041	1.0010	.9981	1.0013	.9999			.9981	
6		.9997	.9993	.9972	1.0024	1.0043	1.0010	.9976	1.0008	.9999			.9976	
7		.9994	.9987	.9969	1.0031	1.0041	1.0015	.9981	1.0002	.9999			.9981	
8		.9992	.9992	.9977	1.0036	1.0053	1.0007	.9961	1.0014	.9995			.9972	
9		1.0010	.9993	.9979	1.0055	1.0019	1.0002	.9970	1.0003	.9992			.9971	
10		1.0009	.9991	.9976	1.0059	1.0031	.9998	.9971	1.0003	.9999			.9971	
11		1.0008	.9990	.9975	1.0055	1.0022	1.0005	.9973	.9994	1.0004			.9973	
12		.9994	.9988	.9979	1.0055	1.0041	.9999	.9960	1.0002	1.0001			.9981	
13		.9998	.9992	.9983	1.0051	1.0023	1.0005	.9974	.9985	.9985			.9985	
14		.9996	.9987	.9972	1.0052	1.0030	1.0006	.9981	.9991	1.0005			.9981	
15		.9997	.9994	.9974	1.0048	1.0039	1.0008	.9979	.9999	1.0004			.9979	
16		.9991	.9989	.9977	1.0036	1.0041	1.0013	.9981	.9991	1.0002			.9981	
17		1.0005	.9991	.9982	1.0041	1.0035	1.0013	.9975	.9986	.9997			.9975	
18		1.0004	.9989	.9971	1.0033	1.0032	1.0017	.9982	.9993	.9998			.9982	
19		1.0006	.9990	.9975	1.0021	1.0043	1.0009	.9983	.9994	.9995			.9983	
20		1.0005	.9993	.9983	1.0030	1.0041	1.0010	.9971	1.0003	.9993			.9971	
21		1.0007	.9984	.9985	1.0032	1.0044	1.0016	.9983	1.0016	1.0004			.9930	
MEAN		1.0000	.9990	.9975	1.0037	1.0038	1.0009	.9977	.9999	.9999			.9976	
S.D.		.0007	.0003	.0006	.0014	.0010	.0005	.0007	.0010	.0004			.0011	

DATE 071581

TABLE 2-11

SECOND INTERCOMPARISON - MAY 2, 1979  
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24						
1	15:54:00	.989.5	.891.7	.888.1	.892.6	.893.3	.892.6	.889.0	.892.0	.890.8	.892.0	.892.0	.891.05	.890.0	.891.0	.891.05	1.690		
2	15:54:30	.889.5	.892.0	.889.0	.892.6	.893.3	.892.6	.890.0	.893.0	.891.4	.894.0	.893.0	.891.47	.891.0	.891.0	.891.47	1.638		
3	15:55:00	.891.2	.891.9	.889.8	.892.8	.894.4	.892.8	.890.0	.895.0	.891.4	.893.0	.895.0	.892.11	.891.0	.892.11	.892.11	1.652		
4	15:55:30	.893.0	.894.6	.892.4	.895.0	.897.4	.895.0	.892.0	.896.0	.893.1	.894.0	.894.0	.894.05	.892.0	.894.05	.894.05	1.740		
5	15:56:00	.895.6	.896.4	.894.1	.897.2	.897.4	.897.2	.894.0	.896.0	.895.5	.898.0	.896.0	.896.05	.895.0	.896.05	.896.05	1.349		
6	15:56:30	.895.6	.897.2	.894.9	.898.0	.898.4	.898.0	.895.0	.898.0	.896.2	.899.0	.899.0	.896.94	.896.0	.896.94	.896.94	1.448		
7	15:57:00	.897.3	.898.6	.896.6	.899.5	.901.4	.899.5	.897.0	.899.0	.897.9	.900.0	.897.0	.898.53	.897.0	.898.53	.898.53	1.511		
8	15:57:30	.897.3	.899.2	.897.4	.900.6	.902.4	.900.6	.897.0	.901.0	.898.9	.901.0	.901.0	.899.40	.898.0	.899.40	.899.40	1.828		
9	15:58:00	.897.3	.899.2	.897.4	.900.3	.902.4	.900.3	.897.0	.901.0	.899.1	.901.0	.901.0	.899.36	.898.0	.899.36	.899.36	1.788		
10	15:58:30	.897.3	.899.2	.897.4	.900.4	.901.4	.900.4	.898.0	.900.0	.899.4	.901.0	.901.0	.899.13	.898.0	.899.13	.899.13	1.596		
11	15:59:00	.898.2	.899.5	.897.4	.900.8	.903.4	.900.8	.898.0	.901.0	.899.9	.900.0	.900.0	.899.68	.898.0	.899.68	.899.68	1.770		
12	15:59:30	.898.2	.899.1	.898.3	.900.4	.903.4	.900.4	.898.0	.901.0	.899.9	.899.0	.899.0	.899.61	.898.0	.899.61	.899.61	1.648		
13	16:00:00	.897.3	.898.5	.897.4	.899.3	.902.4	.899.3	.897.0	.901.0	.898.8	.899.0	.899.0	.898.82	.897.0	.898.82	.898.82	1.706		
14	16:00:30	.895.6	.897.6	.895.8	.898.3	.899.4	.898.3	.897.0	.898.0	.897.3	.899.0	.897.0	.897.48	.896.0	.897.48	.897.48	1.282		
15	16:01:00	.892.1	.893.3	.890.7	.894.7	.896.3	.894.7	.893.0	.895.0	.894.0	.894.0	.894.0	.893.71	.893.0	.893.71	.893.71	1.527		
16	16:01:30	.889.5	.889.3	.887.3	.890.8	.890.3	.890.8	.888.0	.891.0	.889.8	.891.0	.891.0	.889.42	.888.0	.889.42	.889.42	1.336		
17	16:02:00	.889.5	.889.0	.887.3	.889.9	.890.3	.889.9	.887.0	.893.0	.889.3	.890.0	.887.0	.888.93	.887.0	.888.93	.888.93	1.299		
18	16:02:30	.888.7	.888.5	.887.3	.889.5	.890.3	.889.5	.887.0	.890.0	.888.7	.890.0	.888.7	.888.77	.887.0	.888.77	.888.77	1.222		
19	16:03:00	.886.9	.887.6	.885.6	.889.2	.888.3	.889.2	.887.0	.889.0	.888.7	.890.0	.888.7	.888.05	.887.0	.888.05	.888.05	1.325		
20	16:03:30	.888.7	.889.7	.886.9	.890.8	.888.3	.890.8	.888.0	.889.0	.888.9	.892.0	.888.0	.889.19	.888.0	.889.19	.889.19	1.502		
21	16:04:00																		
1		.9983	1.0007	.9967	1.0017	1.0025	1.0017	.9977	1.0011	.9997	1.0011	.9997	1.0011	.9998	.9998	.9998			
2		.9976	1.0004	.9970	1.0010	1.0018	1.0010	.9981	1.0015	.9997	1.0026	.9992	.9992	.9992	.9992	.9992			
3		.9990	.9996	.9974	1.0008	1.0025	1.0008	.9976	1.0032	.9992	1.0010	.9988	.9988	.9988	.9988	.9988			
4		.9988	1.0006	.9982	1.0011	1.0038	1.0011	.9977	1.0022	.9989	.9999	.9977	.9999	.9977	.9999	.9999			
5		.9995	1.0006	.9978	1.0013	1.0015	1.0013	.9977	.9999	.9994	1.0022	.9988	.9988	.9988	.9988	.9988			
6		.9985	1.0003	.9977	1.0012	1.0016	1.0012	.9978	1.0012	.9992	1.0023	.9990	.9990	.9990	.9990	.9990			
7		.9986	1.0001	.9979	1.0011	1.0032	1.0011	.9983	1.0005	.9993	1.0016	.9983	.9983	.9983	.9983	.9983			
8		.9977	.9998	.9978	1.0013	1.0033	1.0013	.9973	1.0018	.9994	1.0018	.9984	.9984	.9984	.9984	.9984			
9		.9977	.9998	.9978	1.0010	1.0034	1.0010	.9974	1.0018	.9997	1.0018	.9985	.9985	.9985	.9985	.9985			
10		.9980	1.0001	.9981	1.0014	1.0025	1.0014	.9976	1.0010	.9991	1.0021	.9987	.9987	.9987	.9987	.9987			
11		.9984	.9998	.9975	1.0012	1.0041	1.0012	.9981	1.0015	.9997	1.0018	.9982	.9982	.9982	.9982	.9982			
12		.9984	.9994	.9985	1.0009	1.0042	1.0009	.9982	1.0015	.9997	1.0004	.9982	.9982	.9982	.9982	.9982			
13		.9983	.9994	.9984	1.0005	1.0043	1.0005	.9980	1.0024	.9997	1.0002	.9984	.9984	.9984	.9984	.9984			
14		.9979	1.0001	.9981	1.0009	1.0021	1.0009	.9995	1.0006	.9998	1.0017	.9983	.9983	.9983	.9983	.9983			
15		.9982	.9995	.9966	1.0011	1.0029	1.0011	.9992	1.0014	.9993	1.0003	.9992	.9992	.9992	.9992	.9992			
16		.9999	.9996	.9974	1.0013	1.0008	1.0013	.9978	1.0016	.9993	1.0012	.9978	.9978	.9978	.9978	.9978			
17		1.0006	1.0001	.9982	1.0011	1.0015	1.0011	.9978	1.0012	.9999	1.0014	.9980	.9980	.9980	.9980	.9980			
18		.9999	.9997	.9983	1.0008	1.0017	1.0008	.9980	1.0014	.9999	1.0014	.9980	.9980	.9980	.9980	.9980			
19		.9987	.9995	.9972	1.0013	1.0003	1.0013	.9988	1.0011	.9997	1.0022	.9988	.9988	.9988	.9988	.9988			
20		.9994	1.0006	.9974	1.0018	.9990	1.0018	.9987	.9998	.9997	1.0032	.9987	.9987	.9987	.9987	.9987			
21																			
MEAN		.9987	1.0000	.9977	1.0011	1.0023	1.0011	.9981	1.0013	.9997	1.0014	.9985	.9985	.9985	.9985	.9985			
S.D.		.0008	.0004	.0005	.0001	.0014	.0003	.0004	.0008	.0005	.0010	.0004	.0004	.0004	.0004	.0004			

TABLE 2-12

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	09:10:00	869.5	870.0	867.1	872.2	871.2	871.2	868.0	874.0	870.5	869.0	871.0	869.0	870.22	1.883
2	09:10:30	870.4	870.5	868.8	871.6	872.2	872.1	868.0	875.0	871.6	871.0	871.0	870.0	871.02	1.779
3	09:11:00	873.0	872.1	869.7	873.6	874.2	873.6	870.0	876.0	872.0	872.0	872.0	872.0	872.62	1.742
4	09:11:30	872.1	872.5	870.5	874.3	873.2	873.9	870.0	876.0	872.9	873.0	873.0	872.0	872.78	1.604
5	09:12:00	873.0	872.6	870.5	873.2	874.1	874.1	870.0	876.0	873.1	873.0	873.0	872.0	872.98	1.704
6	09:12:30	872.1	871.9	869.7	874.1	873.2	873.8	870.0	875.0	872.6	872.0	873.0	872.0	872.47	1.550
7	09:13:00	870.4	871.7	869.7	873.8	872.2	873.6	869.0	874.0	872.5	872.0	872.0	871.0	871.82	1.586
8	09:13:30	870.4	871.5	869.7	873.8	872.2	873.0	870.0	875.0	872.1	872.0	872.0	871.0	871.89	1.545
9	09:14:00	872.1	872.0	870.5	874.7	873.2	873.6	870.0	876.0	872.7	872.0	873.0	872.0	872.65	1.651
10	09:14:30	873.9	872.7	871.3	875.6	874.2	874.6	871.0	876.0	873.3	872.0	873.0	873.0	873.38	1.563
11	09:15:00	873.0	871.5	871.3	877.3	875.2	873.9	870.0	876.0	872.6	872.0	872.0	872.0	873.07	2.140
12	09:15:30	872.1	871.6	869.7	878.2	873.2	873.5	869.0	874.0	872.1	872.0	872.0	871.0	872.37	2.335
13	09:16:00	870.4	870.7	869.7	873.6	872.2	873.0	869.0	874.0	871.9	871.0	871.0	871.0	871.46	1.526
14	09:16:30	872.1	871.2	869.7	875.7	873.2	873.2	870.0	875.0	872.4	871.0	872.0	871.0	872.21	1.838
15	09:17:00	870.4	871.6	870.5	874.2	874.2	873.6	870.0	876.0	872.4	871.0	872.0	872.0	872.32	1.837
16	09:17:30	873.0	872.6	871.3	878.2	875.2	874.6	871.0	876.0	873.3	872.0	873.0	872.0	873.50	2.110
17	09:18:00	874.7	874.5	873.0	877.1	877.2	876.0	872.0	877.0	875.0	874.0	875.0	874.0	874.96	1.640
18	09:18:30	878.2	877.2	875.6	879.8	880.2	878.6	875.0	880.0	877.5	876.0	877.0	877.0	877.67	1.728
19	09:19:00	879.0	878.3	877.3	881.6	881.2	880.6	876.0	881.0	878.8	878.0	879.0	878.0	879.07	1.720
20	09:19:30	878.2	878.4	877.3	880.8	880.2	880.2	877.0	881.0	878.8	878.0	879.0	878.0	878.91	1.347
21	09:20:00	879.0	878.5	877.3	881.6	880.2	880.3	877.0	880.0	878.9	879.0	879.0	878.0	879.07	1.314
1		.9992	.9997	.9964	1.0023	1.0011	1.0011	.9974	1.0043	1.0003	.9986	1.0009	.9986		
2		.9993	.9994	.9975	1.0007	1.0014	1.0012	.9965	1.0046	1.0007	1.0000	1.0000	.9988		
3		1.0004	.9994	.9967	1.0014	1.0018	1.0011	.9970	1.0039	1.0004	.9993	.9993	.9993		
4		.9992	.9997	.9974	1.0017	1.0005	1.0013	.9968	1.0037	1.0001	1.0002	1.0002	.9991		
5		1.0000	.9996	.9972	1.0027	1.0002	1.0013	.9966	1.0035	1.0001	1.0000	1.0000	.9989		
6		.9996	.9994	.9968	1.0019	1.0008	1.0015	.9972	1.0025	1.0004	.9995	1.0006	.9995		
7		.9984	.9994	.9976	1.0023	1.0004	1.0020	.9968	1.0025	1.0008	1.0002	1.0002	.9991		
8		.9983	.9996	.9975	1.0022	1.0004	1.0013	.9978	1.0036	1.0002	1.0001	1.0001	.9990		
9		1.0006	.9993	.9975	1.0023	1.0006	1.0011	.9970	1.0038	1.0001	.9993	1.0004	.9993		
10		.9994	.9992	.9976	1.0025	1.0009	1.0014	.9973	1.0030	.9999	.9984	.9996	.9996		
11		.9999	.9982	.9980	1.0048	1.0024	1.0010	.9965	1.0034	.9995	.9988	.9988	.9988		
12		.9997	.9991	.9969	1.0067	1.0010	1.0013	.9961	1.0019	.9997	.9996	.9996	.9984		
13		.9988	.9991	.9980	1.0025	1.0009	1.0018	.9972	1.0029	1.0005	.9995	.9995	.9995		
14		.9999	.9988	.9971	1.0040	1.0011	1.0011	.9975	1.0032	1.0002	.9986	.9986	.9986		
15		.9978	.9992	.9979	1.0021	1.0021	1.0015	.9973	1.0042	1.0001	.9985	.9996	.9996		
16		.9994	.9990	.9975	1.0054	1.0019	1.0010	.9971	1.0029	.9998	.9983	1.0000	.9983		
17		.9997	.9995	.9978	1.0024	1.0026	1.0012	.9966	1.0023	1.0000	.9989	.9989	.9989		
18		1.0006	.9995	.9978	1.0024	1.0029	1.0011	.9970	1.0026	.9998	.9981	.9992	.9992		
19		.9999	.9991	.9980	1.0029	1.0024	1.0017	.9965	1.0024	.9997	.9988	.9999	.9988		
20		.9992	.9994	.9982	1.0022	1.0015	1.0015	.9978	1.0024	.9999	.9990	1.0001	.9990		
21		.9999	.9994	.9960	1.0029	1.0013	1.0014	.9976	1.0011	.9998	.9999	.9999	.9988		
MEAN		.9995	.9993	.9975	1.0028	1.0013	1.0013	.9970	1.0031	1.0001	.9992	.9999	.9990		
S.D.		.0007	.0004	.0005	.0014	.0008	.0003	.0005	.0009	.0003	.0007	.0005	.0004		

TABLE 2-13

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24			
1	09:33:00	889.5	889.5	887.1	892.8	893.2	891.6	887.0	892.0	890.9	891.0	889.5	889.0	890.26	2.010	
2	09:33:30	889.5	890.3	887.1	894.2	893.2	891.8	887.0	893.0	891.0	891.0	889.5	889.0	890.55	2.286	
3	09:34:00	891.2	891.1	888.0	895.5	894.2	892.7	888.0	893.0	891.8	891.0	890.5	890.0	891.48	2.140	
4	09:34:30	892.9	892.1	889.7	895.8	895.2	893.2	889.0	894.0	892.4	893.0	891.5	890.0	892.40	2.105	
5	09:35:00	893.0	892.9	889.7	897.6	895.2	894.6	890.0	894.0	893.5	894.0	892.5	892.0	893.32	2.162	
6	09:35:30	894.7	894.3	892.2	899.3	896.2	895.9	892.0	895.0	894.7	896.0	894.5	893.0	894.82	1.979	
7	09:36:00	896.4	895.7	893.9	900.4	898.2	897.2	894.0	898.0	896.1	897.0	895.5	895.0	896.45	1.862	
8	09:36:30	896.4	896.9	893.9	901.2	899.2	897.9	894.0	899.0	897.3	898.0	896.5	896.0	897.19	2.093	
9	09:37:00	896.4	896.1	893.9	900.4	899.2	897.8	894.0	898.0	897.0	898.0	896.5	895.0	896.86	1.973	
10	09:37:30	897.2	896.9	894.7	901.2	900.3	897.9	895.0	899.0	897.6	898.0	896.5	896.0	897.52	1.954	
11	09:38:00	897.2	897.0	895.2	902.0	901.3	898.8	895.0	899.0	898.3	898.0	897.5	896.0	897.94	2.160	
12	09:38:30	897.2	897.3	895.6	901.2	899.2	898.9	895.0	898.0	897.9	899.0	897.5	896.0	897.73	1.726	
13	09:39:00	898.1	897.6	895.6	901.2	898.2	899.6	896.0	899.0	898.5	901.0	897.5	897.0	898.27	1.742	
14	09:39:30	899.0	897.9	896.4	901.5	899.2	900.0	896.0	900.0	899.1	901.0	898.5	898.0	898.51	2.874	
15	09:40:00	899.8	891.2	896.9	902.3	900.3	899.0	896.0	901.0	900.4	902.0	899.5	899.0	900.21	1.504	
16	09:40:30	899.8	899.4	898.1	902.8	901.3	901.2	898.0	901.0	899.6	901.0	899.5	899.0	899.40	1.367	
17	09:41:00	899.8	899.0	897.3	902.0	900.3	901.1	898.0	902.0	900.4	902.0	900.5	900.0	900.71	1.714	
18	09:41:30	899.8	899.8	898.1	903.6	902.3	902.0	898.0	902.0	900.2	901.0	899.5	899.0	900.23	1.685	
19	09:42:00	899.0	899.1	898.1	902.7	902.3	901.9	898.0	902.0	900.4	901.0	899.5	899.0	900.32	1.751	
20	09:42:30	899.0	899.4	898.1	902.7	902.3	901.4	898.0	903.0	900.4	901.0	899.5	899.0	900.32	1.751	
21	09:43:00	899.0	899.3	897.3	901.6	902.3	901.1	897.0	902.0	899.7	901.0	899.5	899.0	899.90	1.734	
1		.9991	.9991	.9965	1.0029	1.0033	1.0015	.9963	1.0020	1.0007	1.0008	.9991	.9986			
2		.9988	.9997	.9961	1.0041	1.0030	1.0014	.9960	1.0028	1.0005	1.0005	.9988	.9983			
3		.9997	.9996	.9970	1.0045	1.0030	1.0014	.9961	1.0017	1.0004	.9995	.9989	.9983			
4		1.0006	.9997	.9970	1.0038	1.0031	1.0009	.9962	1.0016	1.0000	1.0007	.9990	.9973			
5		1.0005	.9995	.9960	1.0048	1.0021	1.0014	.9963	1.0008	1.0002	1.0008	.9991	.9985			
6		.9999	.9994	.9971	1.0050	1.0015	1.0012	.9969	1.0002	.9999	1.0013	.9996	.9980			
7		.9999	.9992	.9972	1.0044	1.0020	1.0008	.9973	1.0017	.9996	1.0006	.9989	.9984			
8		.9991	.9997	.9963	1.0045	1.0022	1.0008	.9964	1.0020	1.0001	1.0009	.9992	.9987			
9		.9995	.9992	.9967	1.0039	1.0026	1.0010	.9968	1.0013	1.0002	1.0013	.9996	.9979			
10		.9996	.9993	.9969	1.0041	1.0031	1.0004	.9972	1.0016	1.0001	1.0005	.9989	.9983			
11		.9992	.9990	.9969	1.0045	1.0037	1.0010	.9967	1.0012	1.0004	1.0001	.9995	.9978			
12		.9994	.9995	.9976	1.0039	1.0016	1.0013	.9970	1.0003	1.0002	1.0014	.9997	.9981			
13		.9998	.9992	.9970	1.0033	.9999	1.0015	.9975	1.0008	1.0003	1.0030	.9991	.9986			
14		1.0005	.9992	.9976	1.0032	1.0007	1.0016	.9971	1.0016	.9999	1.0016	.9988	.9982			
15		1.0014	.9919	.9982	1.0042	1.0020	1.0005	.9972	1.0017	1.0007	1.0028	1.0000	.9994			
16		.9995	.9991	.9977	1.0029	1.0012	1.0011	.9975	1.0009	1.0002	1.0020	.9992	.9987			
17		1.0000	.9991	.9972	1.0024	1.0006	1.0014	.9980	1.0013	.9998	1.0013	.9997	.9991			
18		.9990	.9990	.9971	1.0032	1.0018	1.0014	.9970	1.0014	.9997	1.0014	.9998	.9992			
19		.9986	.9987	.9976	1.0027	1.0023	1.0019	.9975	1.0020	1.0000	1.0009	.9992	.9986			
20		.9985	.9990	.9975	1.0026	1.0022	1.0012	.9974	1.0030	1.0001	1.0008	.9991	.9985			
21		.9990	.9993	.9971	1.0019	1.0027	1.0013	.9968	1.0023	.9998	1.0012	.9996	.9990			
	MEAN	.9996	.9989	.9971	1.0037	1.0021	1.0012	.9969	1.0015	1.0001	1.0011	.9993	.9985			
	S.D.	.0007	.0016	.0006	.0009	.0010	.0004	.0005	.0007	.0003	.0008	.0004	.0005			





TABLE 2-15

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER															MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24					
1	10:25:00	922.5	922.9	919.4	925.8	927.6	924.2	919.5	925.0	922.6	922.0	923.0	922.0	923.04	2.375			
2	10:25:30	924.2	924.5	921.0	927.7	928.6	925.7	921.5	926.0	924.6	924.0	925.0	924.0	924.73	2.178			
3	10:26:00	925.1	924.8	921.9	927.3	929.6	927.1	922.5	927.0	925.1	925.0	926.0	924.0	925.45	2.139			
4	10:26:30	925.1	924.3	921.9	927.7	928.6	926.0	921.5	927.0	924.6	923.0	925.0	924.0	925.429	2.187			
5	10:27:00	925.1	925.1	921.9	928.1	929.6	926.2	922.0	927.0	925.0	924.0	926.0	925.0	925.42	2.231			
6	10:27:30	919.1	919.5	916.0	922.4	925.1	921.3	918.0	923.0	920.8	918.0	922.0	920.0	920.43	2.521			
7	10:28:00	917.3	917.1	914.3	920.8	921.6	918.3	914.0	920.0	917.6	915.0	918.0	916.0	917.50	2.450			
8	10:28:30	918.2	917.6	915.1	920.5	922.6	918.6	914.0	921.0	916.9	915.0	918.0	917.0	917.87	2.546			
9	10:29:00	917.3	917.8	915.1	921.7	922.6	919.6	915.5	921.0	918.4	915.0	919.0	918.0	918.42	2.517			
10	10:29:30	918.2	917.8	916.0	921.7	921.6	920.0	915.0	920.0	918.3	918.0	919.0	917.0	918.55	2.049			
11	10:30:00	919.5	919.3	916.8	922.9	923.6	920.3	916.0	921.0	918.5	918.0	919.0	918.0	919.61	2.266			
12	10:30:30	918.2	917.7	916.0	919.7	923.6	919.7	915.5	920.0	917.8	917.0	919.0	918.0	918.52	2.140			
13	10:31:00	917.3	917.3	915.1	920.1	921.6	918.4	914.5	919.0	916.9	916.0	918.0	916.0	917.52	2.058			
14	10:31:30	915.6	915.4	912.6	916.5	918.6	916.4	913.0	916.0	915.3	914.0	916.0	915.0	915.37	1.622			
15	10:32:00	917.3	918.2	915.1	919.4	920.6	919.3	916.0	920.0	917.8	918.0	919.0	917.0	918.14	1.628			
16	10:32:30	919.1	918.6	916.8	920.6	921.6	920.2	916.0	920.0	918.8	919.0	920.0	918.0	919.06	1.589			
17	10:33:00	918.2	917.9	916.0	920.2	921.1	919.9	916.0	920.0	918.8	919.0	919.0	918.0	918.67	1.575			
18	10:33:30	917.3	917.9	915.1	919.4	920.1	919.5	915.0	920.0	917.8	917.0	918.0	917.0	917.84	1.713			
19	10:34:00	915.6	916.4	914.3	918.1	917.6	918.1	914.0	918.0	916.4	916.0	917.0	916.0	916.46	1.389			
20	10:34:30	918.2	917.4	916.0	919.5	919.6	919.2	914.5	920.0	917.3	917.0	918.0	917.0	917.81	1.622			
21	10:35:00	919.9	920.0	918.5	922.3	923.6	922.0	918.0	923.0	920.4	921.0	921.0	920.0	920.81	1.701			
1		.9994	.9998	.9961	1.0030	1.0049	1.0013	.9962	1.0021	.9995	.9989	1.0000	.9989	.9989				
2		.9994	.9997	.9960	1.0032	1.0042	1.0010	.9965	1.0014	.9999	.9992	1.0003	.9992	.9992				
3		.9996	.9993	.9962	1.0020	1.0045	1.0018	.9968	1.0017	.9996	.9995	1.0006	.9984	.9984				
4		1.0002	.9994	.9968	1.0030	1.0040	1.0012	.9963	1.0023	.9997	.9980	1.0001	.9990	.9990				
5		.9997	.9997	.9962	1.0029	1.0045	1.0008	.9963	1.0017	.9995	.9985	1.0006	.9995	.9995				
6		.9986	.9990	.9952	1.0021	1.0051	1.0009	.9974	1.0028	1.0004	.9974	1.0017	.9995	.9995				
7		.9998	.9996	.9965	1.0036	1.0045	1.0009	.9962	1.0027	1.0001	.9973	1.0005	.9984	.9984				
8		1.0004	.9997	.9970	1.0029	1.0051	1.0008	.9958	1.0034	.9989	.9969	1.0001	.9990	.9990				
9		.9988	.9993	.9964	1.0036	1.0046	1.0013	.9968	1.0028	1.0000	.9963	1.0006	.9995	.9995				
10		.9996	.9992	.9972	1.0034	1.0033	1.0016	.9961	1.0016	.9997	.9994	1.0005	.9983	.9983				
11		1.0001	.9999	.9972	1.0038	1.0046	1.0010	.9963	1.0017	.9990	.9985	.9996	.9985	.9985				
12		.9997	.9991	.9973	1.0013	1.0055	1.0013	.9967	1.0016	.9992	.9983	1.0005	.9994	.9994				
13		.9998	.9998	.9974	1.0028	1.0045	1.0010	.9967	1.0016	.9993	.9983	1.0005	.9983	.9983				
14		1.0003	1.0000	.9970	1.0012	1.0035	1.0011	.9974	1.0007	.9999	.9985	1.0007	.9996	.9996				
15		.9991	1.0001	.9967	1.0016	1.0027	1.0013	.9977	1.0020	.9996	.9998	1.0009	.9988	.9988				
16		1.0000	.9995	.9975	1.0017	1.0028	1.0012	.9967	1.0010	.9997	.9999	1.0010	.9988	.9988				
17		.9995	.9992	.9971	1.0017	1.0026	1.0013	.9971	1.0014	1.0001	1.0004	1.0004	.9993	.9993				
18		.9994	1.0001	.9970	1.0017	1.0025	1.0018	.9969	1.0024	1.0000	.9991	1.0002	.9991	.9991				
19		.9991	.9999	.9976	1.0018	1.0012	1.0018	.9973	1.0017	.9999	.9995	1.0006	.9995	.9995				
20		1.0004	.9996	.9980	1.0018	1.0020	1.0015	.9964	1.0024	.9994	.9991	1.0002	.9991	.9991				
21		.9990	.9991	.9975	1.0016	1.0030	1.0013	.9970	1.0024	.9996	1.0002	1.0002	.9991	.9991				
MEAN		.9996	.9996	.9968	1.0024	1.0038	1.0012	.9967	1.0020	.9997	.9987	1.0005	.9990	.9990				
S.D.		.0005	.0003	.0007	.0009	.0012	.0003	.0005	.0007	.0004	.0011	.0004	.0004	.0004				

TABLE 2-16

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 16: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	10:46:00	925.1	925.7	921.2	927.5	927.2	926.0	923.0	927.0	925.1	926.0	925.0	924.0	1.819
2	10:46:30	923.4	924.7	920.4	926.6	927.2	925.0	922.0	926.0	923.8	924.0	924.0	923.0	1.918
3	10:47:00	923.4	923.9	920.4	927.0	928.7	925.4	921.5	926.0	923.6	924.0	924.0	923.0	2.278
4	10:47:30	925.1	925.4	921.2	927.0	929.2	926.2	922.5	927.0	924.8	924.0	925.0	924.0	2.128
5	10:48:00	925.1	925.1	921.6	927.1	927.2	926.3	922.0	927.0	924.4	924.0	925.0	924.0	1.853
6	10:48:30	927.7	927.8	924.6	931.2	928.7	928.1	925.0	929.0	926.4	926.0	927.0	926.0	1.858
7	10:49:00	932.0	931.7	928.0	935.9	932.2	932.0	929.0	932.0	929.9	930.0	931.0	930.0	2.021
8	10:49:30	929.4	928.9	925.4	933.7	931.2	931.1	927.5	931.0	928.7	929.0	929.0	928.0	2.128
9	10:50:00	929.4	929.4	926.3	934.2	932.2	931.1	927.0	932.0	928.5	928.0	929.0	928.0	2.342
10	10:50:30	926.7	927.1	923.7	930.5	931.2	929.0	925.0	930.0	927.4	926.0	928.0	926.0	2.285
11	10:51:00	926.0	926.2	922.1	928.8	928.2	924.8	923.0	926.0	925.1	925.0	925.0	924.0	1.944
12	10:51:30	926.0	925.9	922.1	927.9	930.2	927.0	923.0	927.0	924.9	926.0	926.0	924.0	2.181
13	10:52:00	925.1	926.2	922.1	927.6	930.2	926.8	923.0	927.0	925.2	925.0	926.0	924.0	2.160
14	10:52:30	925.1	925.5	921.2	926.5	929.2	925.6	922.0	927.0	924.4	923.0	925.0	923.0	2.252
15	10:53:00	923.4	923.0	920.4	924.6	926.1	924.2	920.0	925.0	922.5	921.0	923.0	922.0	1.876
16	10:53:30	922.5	922.9	919.5	924.5	926.1	923.8	919.5	924.0	921.8	920.0	922.0	921.0	2.085
17	10:54:00	923.4	923.0	919.5	924.7	927.2	923.8	920.0	924.0	922.3	921.0	922.0	921.0	2.237
18	10:54:30	922.5	922.3	918.7	923.2	927.2	924.0	919.5	924.0	921.9	921.0	922.0	921.0	2.206
19	10:55:00	919.9	919.1	916.1	920.7	924.1	920.4	917.0	921.0	918.0	918.0	919.0	917.0	2.131
20	10:55:30	919.1	918.0	915.3	919.6	924.1	920.2	917.0	920.0	918.2	918.0	919.0	918.0	2.131
21	10:56:00	919.0	918.7	916.1	919.7	922.1	920.4	916.0	920.0	917.5	918.0	918.0	917.0	1.816
1		.9999	1.0005	.9956	1.0024	1.0021	1.0008	.9976	1.0019	.9999	1.0008	.9997	.9987	
2		.9992	1.0006	.9959	1.0026	1.0033	1.0009	.9976	1.0020	.9996	.9998	.9998	.9987	
3		.9991	.9996	.9958	1.0030	1.0048	1.0013	.9970	1.0019	.9993	.9997	.9997	.9987	
4		1.0000	1.0003	.9950	1.0020	1.0044	1.0012	.9972	1.0020	.9997	.9988	.9999	.9988	
5		1.0002	1.0002	.9964	1.0024	1.0025	1.0015	.9969	1.0023	.9995	.9990	1.0001	.9990	
6		1.0004	1.0005	.9971	1.0042	1.0015	1.0009	.9975	1.0018	.9990	.9986	.9997	.9986	
7		1.0009	1.0006	.9966	1.0051	1.0011	1.0009	.9977	1.0009	.9987	.9988	.9998	.9988	
8		1.0000	.9995	.9957	1.0046	1.0019	1.0018	.9979	1.0017	.9992	.9996	.9996	.9985	
9		.9998	.9998	.9965	1.0050	1.0028	1.0016	.9972	1.0026	.9988	.9983	.9994	.9983	
10		.9991	.9995	.9958	1.0032	1.0039	1.0016	.9973	1.0026	.9998	.9983	1.0005	.9983	
11		1.0005	1.0007	.9963	1.0035	1.0029	1.0014	.9973	1.0005	.9995	.9994	.9994	.9984	
12		1.0002	1.0001	.9960	1.0022	1.0047	1.0013	.9969	1.0013	.9790	1.0022	1.0002	.9980	
13		.9994	1.0006	.9961	1.0021	1.0049	1.0012	.9971	1.0014	.9995	.9993	1.0003	.9982	
14		1.0003	1.0008	.9961	1.0018	1.0048	1.0009	.9970	1.0024	.9996	.9981	1.0002	.9981	
15		1.0005	1.0001	.9970	1.0024	1.0041	1.0016	.9970	1.0018	.9995	.9979	1.0001	.9990	
16		1.0002	1.0007	.9970	1.0022	1.0049	1.0012	.9971	1.0015	.9996	.9982	.9993	.9982	
17		1.0008	1.0004	.9966	1.0022	1.0049	1.0012	.9971	1.0015	.9996	.9982	.9993	.9982	
18		1.0002	1.0000	.9961	1.0010	1.0053	1.0019	.9970	1.0019	.9996	.9986	.9997	.9986	
19		1.0006	.9998	.9965	1.0015	1.0052	1.0017	.9975	1.0018	.9986	.9997	.9997	.9975	
20		1.0002	.9990	.9961	1.0008	1.0057	1.0014	.9980	1.0012	.9993	.9990	1.0001	.9990	
21		1.0005	1.0002	.9973	1.0013	1.0039	1.0020	.9972	1.0016	.9989	.9994	.9994	.9983	
MEAN		1.0001	1.0002	.9963	1.0026	1.0037	1.0014	.9973	1.0018	.9993	.9990	.9998	.9985	
S.D.		.0005	.0005	.0005	.0012	.0013	.0004	.0003	.0005	.0004	.0008	.0003	.0004	

TABLE 2-17

SECOND INTERCOMPARISON - MAY 3, 1979  
RUN 17: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	11:07:00	917.3	917.4	913.4	919.8	921.1	918.8	914.0	918.0	917.2	917.0	916.8	916.0	2.191
2	11:07:30	918.2	918.5	914.2	921.1	923.1	920.5	915.5	919.0	918.2	919.0	918.0	916.4	2.460
3	11:08:00	919.9	919.7	915.9	922.3	924.1	921.7	917.0	921.0	920.0	920.0	919.0	918.8	2.271
4	11:08:30	919.9	919.9	915.9	922.5	925.1	921.1	916.5	922.0	919.7	919.0	918.0	918.0	2.567
5	11:09:00	919.9	919.2	915.9	922.2	923.1	921.2	917.0	920.0	920.0	918.0	919.0	918.0	2.085
6	11:09:30	920.8	920.5	916.8	924.1	925.1	922.2	918.0	921.0	920.5	919.0	920.0	918.0	2.373
7	11:10:00	919.9	919.9	915.9	923.0	924.1	921.7	917.0	920.0	920.6	919.0	920.0	918.0	2.332
8	11:10:30	919.0	919.2	915.9	921.4	925.1	920.6	916.0	920.0	919.4	919.0	918.0	918.0	2.423
9	11:11:00	918.2	917.8	915.1	921.7	922.1	920.0	916.0	919.0	918.0	918.0	917.0	917.0	2.065
10	11:11:30	917.3	917.2	913.4	921.2	921.1	919.0	915.0	917.0	917.5	916.0	917.0	916.0	2.273
11	11:12:00	917.3	917.5	914.2	919.6	920.1	919.0	914.0	917.0	916.9	918.0	916.0	916.0	1.915
12	11:12:30	918.2	917.5	914.2	918.5	922.1	919.7	915.0	919.0	918.0	918.0	917.0	917.7	2.111
13	11:13:00	918.2	917.5	914.2	919.6	921.1	919.5	916.0	918.0	917.7	918.0	918.0	916.0	1.830
14	11:13:30	917.3	916.6	913.4	918.7	921.1	918.0	914.5	918.0	917.5	917.0	917.0	916.0	1.961
15	11:14:00	918.2	918.3	915.1	920.2	922.1	920.1	915.5	919.0	918.2	919.0	918.0	918.3	1.955
16	11:14:30	918.2	918.4	915.1	920.2	922.1	920.3	916.0	920.0	918.9	918.0	918.0	917.0	1.958
17	11:15:00	919.0	918.5	915.1	919.5	923.1	920.3	916.0	920.0	918.9	917.0	918.0	918.5	2.145
18	11:15:30	917.3	917.1	914.2	918.9	921.1	919.3	915.0	917.0	917.0	918.0	917.0	916.0	1.870
19	11:16:00	916.4	916.3	913.4	918.0	920.1	918.6	914.0	917.0	916.9	917.0	917.0	915.0	1.870
20	11:16:30	917.3	917.0	914.7	918.1	921.1	918.9	915.0	918.0	917.4	918.0	917.0	916.0	1.718
21	11:17:00	919.0	919.2	914.7	919.6	923.1	920.7	917.0	920.0	919.0	920.0	919.0	917.0	2.102
1		1.0001	1.0003	.9959	1.0029	1.0043	1.0018	.9965	1.0009	1.0000	.9998	.9987	.9987	
2		.9997	1.0001	.9954	1.0029	1.0051	1.0022	.9968	1.0006	.9997	1.0006	.9995	.9973	
3		1.0000	.9998	.9957	1.0026	1.0046	1.0020	.9969	1.0012	1.0001	1.0001	.9990	.9980	
4		1.0000	1.0000	.9957	1.0028	1.0057	1.0013	.9963	1.0023	.9955	.9990	.9990	.9980	
5		1.0005	.9997	.9961	1.0030	1.0040	1.0019	.9973	1.0006	1.0006	.9984	.9925	.9984	
6		1.0002	.9999	.9959	1.0038	1.0049	1.0018	.9972	1.0005	.9999	.9983	.9994	.9983	
7		1.0000	1.0000	.9956	1.0033	1.0045	1.0019	.9968	1.0001	1.0007	.9990	1.0001	.9979	
8		.9997	.9998	.9962	1.0022	1.0062	1.0013	.9963	1.0007	1.0000	.9994	.9996	.9985	
9		.9997	.9993	.9963	1.0035	1.0039	1.0017	.9975	1.0006	1.0004	.9995	.9995	.9984	
10		1.0000	.9999	.9957	1.0042	1.0041	1.0016	.9973	1.0006	1.0005	.9985	.9993	.9984	
11		1.0002	1.0004	.9968	1.0027	1.0032	1.0020	.9966	.9999	.9997	1.0009	.9988	.9988	
12		1.0005	.9997	.9961	1.0008	1.0047	1.0021	.9970	1.0013	1.0003	1.0003	.9992	.9981	
13		1.0004	.9997	.9961	1.0019	1.0036	1.0018	.9980	1.0002	.9999	1.0002	1.0002	.9980	
14		1.0002	.9995	.9960	1.0018	1.0044	1.0010	.9972	1.0010	1.0004	.9999	.9999	.9988	
15		.9998	.9999	.9944	1.0020	1.0040	1.0019	.9969	1.0007	.9998	1.0007	.9996	.9985	
16		.9997	.9999	.9963	1.0018	1.0039	1.0019	.9973	1.0016	1.0004	.9994	.9994	.9983	
17		1.0005	1.0000	.9963	1.0011	1.0050	1.0019	.9972	1.0016	1.0004	.9983	.9994	.9983	
18		.9999	.9997	.9965	1.0016	1.0040	1.0021	.9974	.9996	1.0004	1.0007	.9994	.9985	
19		.9997	.9996	.9965	1.0015	1.0038	1.0021	.9971	1.0038	1.0003	1.0004	1.0004	.9982	
20		.9999	.9996	.9971	1.0008	1.0041	1.0017	.9974	1.0007	1.0000	1.0007	.9994	.9985	
21		1.0000	1.0002	.9953	1.0006	1.0044	1.0018	.9978	1.0011	1.0000	1.0011	1.0000	.9976	
MEAN		1.0000	.9998	.9961	1.0023	1.0044	1.0018	.9971	1.0007	1.0002	.9998	.9995	.9983	
S.D.		.0003	.0003	.0004	.0010	.0007	.0003	.0004	.0007	.0003	.0009	.0004	.0004	

TABLE 2-18

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 18: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24						
1	11:30:00	913.1	914.7	910.3	917.4	917.0	916.4	913.0	916.0	914.9	915.0	915.0	914.0	914.73	1.969				
2	11:30:30	912.2	912.8	908.7	916.3	912.0	914.0	910.0	914.0	912.7	912.0	912.0	911.0	912.31	1.944				
3	11:31:00	915.7	915.1	912.0	919.8	915.0	916.6	912.0	916.0	914.8	916.0	914.0	914.0	915.08	2.090				
4	11:31:30	916.5	916.1	912.0	920.0	916.0	917.3	913.0	915.0	916.0	915.0	915.0	915.0	915.74	2.078				
5	11:32:00	914.8	913.1	909.5	916.8	914.0	914.9	912.0	916.0	913.7	912.0	914.0	912.0	913.57	2.004				
6	11:32:30	907.9	908.5	904.4	912.6	911.0	909.8	906.0	911.0	908.4	906.0	908.0	907.0	908.38	2.393				
7	11:33:00	904.4	904.5	900.2	908.3	906.0	905.0	901.0	905.0	903.5	902.0	903.0	902.0	903.74	2.272				
8	11:33:30	900.1	900.0	896.0	904.5	902.9	901.6	898.0	901.0	899.9	900.0	900.0	898.0	900.17	2.254				
9	11:34:00	897.5	897.5	894.3	902.0	899.9	899.2	896.0	899.0	897.5	897.0	898.0	896.0	897.82	2.025				
10	11:34:30	896.6	897.3	893.4	902.5	898.9	898.5	895.0	899.0	897.3	896.0	897.0	896.0	897.29	2.304				
11	11:35:00	893.2	893.6	890.9	898.6	895.9	898.5	892.0	896.0	893.8	894.0	894.0	892.0	894.37	2.445				
12	11:35:30	894.0	893.5	889.2	896.7	892.9	895.1	891.0	894.0	893.1	893.0	893.0	892.0	893.12	1.898				
13	11:36:00	894.0	893.8	890.0	896.5	894.9	896.0	892.5	894.0	893.3	894.0	894.0	892.0	893.75	1.734				
14	11:36:30	894.9	894.0	891.7	897.1	895.9	896.6	892.0	897.0	892.8	895.0	894.0	892.0	894.42	1.987				
15	11:37:00	896.6	896.0	892.6	898.5	898.9	897.9	893.5	897.0	894.8	897.0	895.0	894.0	895.98	2.020				
16	11:37:30	897.5	898.1	896.0	900.3	898.5	900.3	896.0	901.0	897.3	900.0	897.0	896.0	898.20	1.850				
17	11:38:00	904.4	902.3	901.0	905.1	902.9	903.8	899.0	904.0	900.5	903.0	901.0	900.0	902.25	1.931				
18	11:38:30	912.2	901.9	908.7	913.9	913.0	912.3	908.0	913.0	908.8	911.0	909.0	908.0	909.98	3.331				
19	11:39:00	914.8	913.8	911.2	916.2	917.0	915.5	911.5	916.0	913.3	913.0	913.0	913.0	914.02	1.867				
20	11:39:30	918.2	918.3	915.4	920.7	921.0	919.8	915.0	921.0	916.5	917.0	917.0	917.0	918.07	2.124				
21	11:40:00	917.4	917.5	913.7	920.7	920.0	919.1	916.0	920.0	917.4	916.0	916.0	917.0	917.73	2.002				
1		.9962	1.0000	.9952	1.0029	1.0025	1.0018	.9981	1.0014	1.0002	1.0003	1.0003	.9992						
2		.9999	1.0005	.9960	1.0044	.9997	1.0019	.9975	1.0019	1.0004	.9997	.9997	.9986						
3		1.0007	1.0000	.9966	1.0052	.9999	1.0017	.9966	1.0010	.9997	1.0010	.9988	.9988						
4		1.0008	1.0004	.9959	1.0047	1.0003	1.0017	.9970	1.0014	1.0003	.9992	.9992	.9992						
5		1.0014	.9995	.9955	1.0035	1.0005	1.0015	.9983	1.0027	1.0001	.9983	1.0005	.9983						
6		.9995	1.0001	.9956	1.0046	1.0029	1.0016	.9974	1.0029	1.0000	.9974	.9996	.9985						
7		1.0007	1.0008	.9961	1.0050	1.0025	1.0014	.9970	1.0014	.9997	.9981	.9992	.9981						
8		.9999	.9998	.9954	1.0048	1.0030	1.0016	.9976	1.0009	.9997	.9998	.9998	.9976						
9		.9996	.9996	.9961	1.0047	1.0023	1.0015	.9980	1.0013	.9996	.9991	1.0002	.9980						
10		.9992	1.0000	.9957	1.0058	1.0018	1.0013	.9974	1.0019	1.0000	.9986	.9997	.9986						
11		.9987	.9991	.9961	1.0047	1.0017	1.0046	.9973	1.0018	.9994	.9996	.9996	.9973						
12		1.0010	1.0004	.9956	1.0040	.9997	1.0022	.9976	1.0010	1.0000	.9999	.9999	.9987						
13		1.0003	1.0001	.9958	1.0031	1.0013	1.0025	.9986	1.0003	.9995	1.0003	1.0003	.9980						
14		1.0005	.9995	.9970	1.0030	1.0017	1.0024	.9973	1.0029	.9982	1.0007	.9995	.9973						
15		1.0007	1.0000	.9962	1.0028	1.0008	1.0021	.9972	1.0011	.9990	1.0011	.9989	.9978						
16		.9992	.9999	.9976	1.0023	1.0008	1.0023	.9976	1.0031	.9990	1.0020	.9987	.9976						
17		1.0024	1.0001	.9986	1.0032	1.0007	1.0017	.9964	1.0019	.9981	1.0008	.9986	.9975						
18		1.0024	.9711	.9986	1.0043	1.0033	1.0025	.9978	1.0033	.9987	1.0011	.9989	.9978						
19		1.0008	.9998	.9969	1.0024	1.0033	1.0016	.9972	1.0022	.9992	.9989	.9989	.9989						
20		1.0001	1.0002	.9971	1.0029	1.0032	1.0019	.9967	1.0032	.9983	.9988	.9988	.9988						
21		.9996	.9997	.9954	1.0032	1.0025	1.0015	.9981	1.0025	.9996	.9981	1.0003	.9992						
MEAN		1.0003	.9996	.9963	1.0039	1.0017	1.0020	.9975	1.0019	.9994	.9996	.9995	.9983						
S.D.		.0011	.0020	.0010	.0010	.0013	.0007	.0006	.0009	.0007	.0012	.0006	.0006						

TABLE 2-19

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 19: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	11:52:00	917.7	916.1	914.5	917.8	922.3	917.4	912.0	918.0	914.6	915.0	915.0	915.0	2.594
2	11:52:30	922.9	922.6	920.4	923.9	926.4	923.4	919.0	924.0	921.6	921.0	922.0	922.0	1.920
3	11:53:00	922.9	923.0	920.4	923.5	928.4	924.0	920.0	925.0	922.6	921.0	923.0	922.0	2.243
4	11:53:30	924.7	924.3	922.1	924.6	930.4	925.5	921.0	927.0	923.6	924.0	924.0	923.8	2.407
5	11:54:00	923.8	923.8	920.4	924.9	929.4	924.5	920.0	927.0	923.2	921.0	923.0	923.0	2.673
6	11:54:30	920.3	919.8	917.0	920.3	925.4	920.6	917.0	922.0	919.9	917.0	920.0	918.0	2.415
7	11:55:00	919.5	919.3	917.0	920.1	924.4	921.0	916.0	920.0	919.2	918.0	919.0	918.0	2.126
8	11:55:30	918.6	918.2	915.3	918.3	924.4	919.4	915.0	920.0	917.6	918.0	918.0	917.0	2.406
9	11:56:00	917.7	917.9	915.3	919.4	922.3	919.7	915.0	920.0	917.0	919.0	918.0	917.0	1.971
10	11:56:30	919.5	919.2	917.0	920.3	922.3	920.8	916.5	920.0	917.9	920.0	919.0	918.0	1.653
11	11:57:00	919.5	919.6	916.2	920.7	924.4	921.9	918.0	921.0	919.7	920.0	921.0	919.0	2.030
12	11:57:30	918.2	918.4	916.2	919.6	924.4	919.6	916.0	921.0	917.9	919.0	919.0	918.0	2.213
13	11:58:00	920.3	920.9	918.7	921.4	926.4	923.7	917.0	923.0	918.9	920.0	919.0	919.0	2.455
14	11:58:30	920.3	920.8	917.9	921.3	925.4	922.0	919.0	922.0	920.3	921.0	921.0	920.0	1.834
15	11:59:00	919.5	919.1	916.2	919.7	923.3	919.9	916.0	921.0	917.6	918.0	919.0	918.0	2.018
16	11:59:30	918.6	917.9	916.2	919.1	923.3	919.6	916.0	920.0	916.9	918.0	919.0	917.0	2.002
17	12:00:00	922.9	923.0	920.4	924.2	926.4	923.4	919.5	924.0	920.9	923.0	923.0	921.0	1.876
18	12:00:30	922.9	923.3	920.4	924.2	926.4	924.6	921.0	924.0	922.5	923.0	924.0	922.0	1.630
19	12:01:00	922.9	924.2	922.1	925.6	928.4	924.9	921.0	926.0	922.8	923.0	924.0	923.0	2.001
20	12:01:30	925.5	925.3	923.8	926.3	930.4	926.9	922.5	927.0	925.0	925.0	926.0	925.0	1.935
21	12:02:00	924.7	925.1	923.0	926.4	929.4	926.2	922.5	927.0	924.3	924.0	926.0	924.0	1.900
1	1.0015	.9998		.9901	1.0017	1.0066	1.0012	.9953	1.0019	.9982	.9986	.9986	.9986	
2	1.0005	1.0002		.9978	1.0016	1.0043	1.0010	.9963	1.0017	.9991	.9964	.9995	.9995	
3	.9999	1.0000		.9972	1.0006	1.0059	1.0011	.9968	1.0022	.9996	.9979	1.0000	.9989	
4	1.0002	.9998		.9974	1.0001	1.0064	1.0011	.9962	1.0027	.9990	.9994	.9994	.9984	
5	1.0001	1.0001		.9965	1.0013	1.0062	1.0009	.9960	1.0036	.9995	.9971	.9993	.9993	
6	1.0006	1.0000		.9970	1.0006	1.0061	1.0009	.9970	1.0024	1.0001	.9970	1.0002	.9981	
7	1.0002	1.0000		.9975	1.0009	1.0056	1.0019	.9964	1.0006	.9999	.9966	.9997	.9986	
8	1.0003	.9999		.9967	1.0000	1.0066	1.0012	.9964	1.0018	.9992	.9977	.9997	.9986	
9	.9996	.9999		.9970	1.0015	1.0047	1.0018	.9967	1.0000	.9959	1.0011	1.0000	.9989	
10	1.0003	1.0000		.9976	1.0012	1.0034	1.0017	.9971	1.0009	.9986	1.0009	.9998	.9987	
11	.9994	.9995		.9958	1.0007	1.0047	1.0020	.9977	1.0010	.9996	.9999	1.0018	.9988	
12	.9992	.9994		.9970	1.0007	1.0059	1.0007	.9968	1.0022	.9989	1.0001	1.0001	.9990	
13	.9998	1.0004		.9980	1.0010	1.0064	1.0013	.9962	1.0027	.9982	.9994	.9983	.9983	
14	.9993	.9999		.9967	1.0004	1.0049	1.0012	.9979	1.0012	.9993	1.0001	1.0001	.9990	
15	1.0006	1.0002		.9970	1.0008	1.0047	1.0010	.9968	1.0017	.9985	.9990	1.0001	.9990	
16	1.0001	.9994		.9975	1.0007	1.0053	1.0012	.9973	1.0017	.9983	.9995	1.0006	.9984	
17	1.0003	1.0004		.9976	1.0012	1.0051	1.0009	.9964	1.0015	.9982	1.0004	1.0004	.9983	
18	.9997	1.0001		.9970	1.0011	1.0035	1.0015	.9976	1.0009	.9993	.9998	1.0009	.9987	
19	.9988	1.0002		.9980	1.0017	1.0048	1.0010	.9964	1.0022	.9987	.9989	1.0000	.9989	
20	.9998	.9995		.9979	1.0006	1.0051	1.0013	.9965	1.0014	.9992	.9992	1.0003	.9992	
21	.9994	.9999		.9976	1.0013	1.0045	1.0011	.9971	1.0019	.9990	.9987	1.0008	.9987	
MEAN		1.0000	.9999	.9973	1.0009	1.0052	1.0012	.9967	1.0018	.9990	.9992	.9999	.9988	
S.D.		.0006	.0003	.0006	.0005	.0010	.0004	.0004	.0004	.0004	.0011	.0007	.0004	

TABLE 2-20

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 20: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	12:12:00	923.5	923.6	920.5	926.0	930.8	925.8	921.0	928.0	924.9	924.0	924.0	922.0	924.51
2	12:12:30	921.8	923.5	918.8	925.0	927.7	923.8	919.0	925.0	923.0	923.0	923.0	922.0	922.97
3	12:13:00	921.5	924.5	920.5	925.8	929.7	925.5	920.5	927.0	924.6	924.0	924.0	923.0	924.55
4	12:13:30	927.0	927.0	923.9	929.5	932.8	927.4	923.0	929.0	926.4	927.0	926.0	925.0	927.00
5	12:14:00	927.8	927.0	924.0	931.7	933.6	929.2	924.0	930.0	928.4	929.0	927.0	927.0	928.37
6	12:14:30	928.7	928.2	925.6	931.3	933.8	930.0	925.5	930.0	928.7	930.0	928.0	927.0	928.90
7	12:15:00	928.7	927.3	924.0	929.1	930.8	928.8	924.0	930.0	928.0	929.0	928.0	926.0	927.79
8	12:15:30	929.6	928.8	925.6	931.0	932.8	930.3	925.5	931.0	928.3	931.0	928.0	928.0	929.16
9	12:16:00	930.4	930.6	927.3	932.1	935.8	931.6	927.0	934.0	930.0	931.0	930.0	929.0	930.73
10	12:16:30	931.4	931.0	928.1	933.4	936.8	932.4	928.0	935.0	931.2	932.0	931.0	930.0	931.69
11	12:17:00	930.4	929.9	926.4	931.6	936.8	931.2	926.0	933.0	930.7	930.0	930.0	929.0	930.42
12	12:17:30	929.6	929.4	926.4	931.2	935.0	930.3	926.0	932.0	929.5	929.0	930.0	928.0	929.77
13	12:18:00	927.0	927.1	923.9	923.9	932.8	928.3	925.0	930.0	928.4	927.0	929.0	926.0	927.85
14	12:18:30	925.2	925.3	922.2	927.6	931.0	926.3	922.0	928.0	925.8	925.0	925.0	924.0	925.68
15	12:19:00	923.5	924.2	920.5	925.7	928.7	925.9	921.0	924.0	924.4	927.0	927.0	922.0	924.24
16	12:19:30	921.0	922.6	919.7	924.8	927.7	924.3	920.5	925.0	923.0	925.0	924.0	922.0	923.37
17	12:20:00	918.2	919.0	914.3	921.6	923.7	920.6	917.0	922.0	919.4	920.0	920.0	918.0	919.45
18	12:20:30	919.2	919.6	917.1	921.1	926.7	920.6	916.0	923.0	919.6	919.0	920.0	918.0	919.99
19	12:21:00	919.2	918.6	916.3	921.3	923.7	920.1	915.5	920.0	918.7	920.0	919.0	918.0	919.20
20	12:21:30	920.1	920.9	917.1	921.7	925.7	921.9	917.5	923.0	920.7	921.0	921.0	919.0	920.88
21	12:22:00	920.1	920.0	910.0	922.0	925.7	922.0	917.5	924.0	921.0	921.0	920.0	919.0	920.99
1		9989	9990	9957	1.0016	1.0068	1.0014	9962	1.0038	1.0004	9995	9995	9973	
2		9987	1.0006	9955	1.0022	1.0051	1.0009	9957	1.0022	1.0000	1.0000	1.0000	9990	
3		9989	9999	9956	1.0014	1.0056	1.0010	9956	1.0026	1.0001	1.0016	9994	9983	
4		1.0000	1.0000	9967	1.0027	1.0063	1.0004	9957	1.0022	9994	1.0000	9989	9978	
5		9994	9994	9961	1.0036	1.0058	1.0009	9953	1.0018	1.0000	1.0007	9985	9985	
6		9998	9992	9964	1.0026	1.0053	1.0012	9963	1.0012	9998	1.0012	9990	9980	
7		1.0010	9995	9968	1.0014	1.0032	1.0011	9959	1.0024	1.0002	1.0013	9991	9981	
8		1.0005	9996	9962	1.0020	1.0039	1.0012	9961	1.0020	9991	1.0020	9988	9980	
9		9996	9999	9963	1.0015	1.0054	1.0009	9960	1.0035	9992	1.0003	9992	9981	
10		9997	9993	9961	1.0018	1.0055	1.0008	9960	1.0036	9995	1.0003	9993	9982	
11		1.0000	9994	9957	1.0013	1.0069	1.0006	9953	1.0028	1.0003	9996	9996	9985	
12		9998	9996	9964	1.0015	1.0045	1.0004	9959	1.0024	9997	9992	1.0003	9981	
13		9991	9992	9957	1.0020	1.0053	1.0005	9969	1.0023	1.0006	9991	1.0012	9980	
14		9995	9996	9962	1.0021	1.0066	1.0007	9960	1.0025	1.0001	9993	9997	9982	
15		9992	1.0000	9960	1.0016	1.0048	1.0018	9965	9997	1.0002	1.0030	9997	9976	
16		9983	9992	9960	1.0016	1.0047	1.0018	9967	1.0018	9996	1.0018	1.0007	9985	
17		9984	9993	9964	1.0021	1.0044	1.0010	9971	1.0026	9997	1.0004	1.0004	9982	
18		9991	9996	9969	1.0017	1.0073	1.0007	9957	1.0033	9996	9989	1.0000	9978	
19		1.0000	9993	9964	1.0023	1.0049	1.0010	9960	1.0009	9995	1.0009	9998	9987	
20		9992	1.0001	9960	1.0010	1.0053	1.0012	9964	1.0024	9999	1.0002	1.0002	9980	
21		9990	9990	9960	1.0020	1.0051	1.0011	9962	1.0033	1.0000	1.0000	9989	9978	
MEAN		9994	9996	9962	1.0019	1.0055	1.0010	9961	1.0023	9998	1.0004	9996	9982	
S.D.		9997	9994	9994	9996	9996	9996	9996	9996	9996	9996	9996	9996	

TABLE 2-21

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 21: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24						
1	12:33:00	933.7	933.8	930.4	936.9	936.3	936.0	931.0	937.0	936.7	933.0	933.0	932.0	933.72	2.178				
2	12:33:30	934.5	935.5	932.1	938.7	937.3	936.3	933.0	938.0	936.7	934.0	935.0	934.0	935.24	1.997				
3	12:34:00	935.4	936.5	933.0	939.6	938.3	937.1	933.5	937.1	935.3	936.0	936.0	935.0	936.21	1.812				
4	12:34:30	932.8	933.2	929.6	936.7	936.3	935.1	932.0	936.0	933.9	933.0	934.0	932.0	933.72	2.073				
5	12:35:00	930.2	931.5	927.9	935.6	932.3	932.2	928.5	933.0	930.8	930.0	931.0	930.0	931.08	2.067				
6	12:35:30	930.2	930.4	927.9	935.5	930.3	931.7	928.0	932.0	929.6	930.0	930.0	929.0	930.38	2.028				
7	12:36:00	930.2	931.0	927.9	935.8	931.3	931.8	928.0	933.0	930.3	930.0	930.0	929.0	930.49	2.182				
8	12:36:30	930.2	931.0	928.7	936.1	932.3	932.1	928.0	933.0	930.1	931.0	930.0	929.0	930.96	2.208				
9	12:37:00	928.5	928.3	925.3	933.6	930.3	929.6	925.0	931.0	928.0	928.0	928.0	927.0	928.55	2.378				
10	12:37:30	926.7	927.2	925.3	931.7	930.3	928.2	924.0	929.0	926.6	926.0	927.0	926.0	927.33	2.159				
11	12:38:00	926.7	927.9	924.5	932.3	930.3	928.5	924.0	930.0	927.1	927.0	927.0	926.0	927.61	2.392				
12	12:38:30	926.7	926.9	923.7	929.0	930.3	927.8	923.0	929.0	926.4	926.0	926.0	925.0	926.72	2.264				
13	12:39:00	926.7	927.5	925.3	930.2	932.3	928.5	924.0	930.0	926.9	927.0	927.0	926.0	927.62	2.301				
14	12:39:30	924.2	924.2	922.0	927.2	928.3	925.5	921.0	926.0	924.2	924.0	924.0	923.0	924.47	2.356				
15	12:40:00	923.3	923.4	921.1	925.8	926.3	924.3	920.0	924.0	922.7	924.0	923.0	922.0	923.32	1.786				
16	12:40:30	923.3	923.5	920.3	925.6	927.3	924.7	920.0	925.0	922.6	925.0	923.0	922.0	923.52	2.145				
17	12:41:00	921.6	924.5	920.3	924.5	925.2	924.3	919.5	925.0	921.8	925.0	922.0	921.0	922.89	2.063				
18	12:41:30	919.8	920.5	917.7	923.1	925.2	922.2	918.0	923.0	920.2	922.0	921.0	919.0	920.97	2.230				
19	12:42:00	920.7	920.7	918.6	922.0	922.2	922.9	918.0	922.0	918.2	922.0	921.0	919.0	921.87	1.906				
20	12:42:30	918.1	918.8	916.0	920.6	920.2	920.5	916.0	920.0	918.2	922.0	919.0	917.0	918.87	1.896				
21	12:43:00	918.1	918.7	916.0	919.1	921.2	920.3	916.0	920.0	917.6	921.0	919.0	917.0	918.67	1.785				
1		1.0000	1.0001	.9964	1.0034	1.0020	1.0012	.9971	1.0035	.9989	.9992	.9992	.9982						
2		.9992	1.0003	.9966	1.0037	1.0022	1.0011	.9976	1.0029	.9994	.9987	.9997	.9987						
3		.9991	1.0003	.9974	1.0036	1.0022	1.0010	.9971	1.0019	.9990	.9998	.9998	.9987						
4		.9990	.9994	.9956	1.0032	1.0028	1.0015	.9982	1.0024	1.0002	.9992	1.0003	.9982						
5		.9991	1.0004	.9966	1.0049	1.0013	1.0012	.9972	1.0021	.9997	.9988	.9999	.9988						
6		.9998	1.0000	.9973	1.0055	.9999	1.0014	.9974	1.0017	.9992	.9996	.9996	.9985						
7		.9995	1.0003	.9970	1.0055	1.0007	1.0012	.9971	1.0025	.9996	.9993	.9993	.9982						
8		.9992	1.0000	.9976	1.0055	1.0014	1.0012	.9968	1.0022	.9991	1.0000	.9990	.9979						
9		.9999	.9997	.9965	1.0054	1.0019	1.0011	.9962	1.0026	.9994	.9994	.9994	.9983						
10		.9993	.9999	.9978	1.0047	1.0032	1.0009	.9964	1.0018	.9992	.9986	.9996	.9986						
11		.9990	1.0003	.9966	1.0051	1.0029	1.0010	.9961	1.0026	.9995	.9993	.9993	.9983						
12		1.0000	1.0007	.9967	1.0054	1.0039	1.0012	.9960	1.0025	.9996	.9992	.9992	.9981						
13		.9990	.9999	.9975	1.0020	1.0050	1.0010	.9961	1.0026	.9992	.9993	.9993	.9983						
14		.9997	.9997	.9973	1.0030	1.0041	1.0011	.9963	1.0017	.9997	.9995	.9995	.9984						
15		1.0000	1.0001	.9976	1.0027	1.0032	1.0011	.9964	1.0007	.9993	1.0007	.9996	.9986						
16		.9998	1.0000	.9965	1.0022	1.0041	1.0013	.9962	1.0016	.9990	1.0016	.9994	.9983						
17		.9986	1.0017	.9972	1.0017	1.0025	1.0015	.9963	1.0023	.9988	1.0023	.9990	.9980						
18		.9987	.9995	.9964	1.0023	1.0046	1.0013	.9968	1.0022	.9992	1.0011	1.0000	.9979						
19		.9996	.9996	.9974	1.0011	1.0013	1.0020	.9967	1.0011	.9991	1.0043	1.0000	.9978						
20		.9992	.9999	.9969	1.0019	1.0015	1.0018	.9969	1.0012	.9993	1.0034	1.0001	.9980						
21		.9994	1.0000	.9971	1.0005	1.0028	1.0018	.9971	1.0015	.9988	1.0025	1.0004	.9982						
	MEAN	.9994	1.0001	.9970	1.0034	1.0026	1.0013	.9968	1.0021	.9993	1.0003	.9996	.9983						
	S.D.	.0004	.0005	.0005	.0015	.0013	.0003	.0004	.0007	.0003	.0016	.0004	.0003						



TA' 2-22

SECOND INTERCOMPARISON - MAY 3, 1979  
 RUN 22 RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																	MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24							
1	13:05:00	906.8	908.9	905.4	913.7	910.9	910.5	908.0	910.0	907.9	909.0	909.0	909.0	909.01	2.131					
2	13:05:30	906.8	907.5	904.5	911.9	910.9	908.8	906.0	911.0	906.6	901.0	907.0	907.0	907.42	3.016					
3	13:06:00	905.9	906.4	905.7	911.3	912.9	907.6	904.0	910.0	905.8	906.0	906.0	906.0	907.13	2.834					
4	13:06:30	908.5	909.5	905.4	913.1	914.9	908.5	905.0	911.0	907.1	907.0	907.0	907.0	903.67	3.009					
5	13:07:00	908.5	908.6	905.4	913.0	915.9	909.4	906.0	912.0	908.2	908.0	907.0	907.0	909.06	3.065					
6	13:07:30	908.5	908.9	906.2	912.9	916.9	909.6	904.5	913.0	908.2	907.0	908.0	908.0	909.47	3.195					
7	13:08:00	910.2	911.3	908.8	913.5	918.9	911.1	907.0	914.0	909.1	909.0	909.0	909.0	910.91	3.230					
8	13:08:30	911.9	912.6	910.5	916.3	922.0	913.7	911.0	915.0	912.7	912.0	912.0	912.0	913.56	3.127					
9	13:09:00	911.1	911.1	908.8	916.1	919.9	912.2	909.0	915.0	911.0	910.0	910.0	910.0	912.10	3.289					
10	13:09:30	910.1	910.9	907.9	915.5	918.9	912.0	909.0	914.0	911.1	910.0	910.0	910.0	911.70	3.066					
11	13:10:00	910.2	910.9	908.8	914.3	918.9	911.9	908.0	913.0	910.3	909.0	909.0	909.0	911.11	3.089					
12	13:10:30	906.8	907.1	904.5	910.2	915.9	908.9	905.0	908.0	907.1	908.0	906.0	906.0	907.79	3.013					
13	13:11:00	909.3	909.6	907.1	912.3	916.9	910.7	907.0	911.0	908.7	910.0	908.0	908.0	909.88	2.730					
14	13:11:30	910.2	910.9	908.8	912.3	917.9	912.7	910.0	913.0	910.4	912.0	910.0	910.0	911.43	2.464					
15	13:12:00	910.2	911.0	908.8	912.3	915.9	912.4	909.0	913.0	909.6	913.0	910.0	910.0	911.18	2.168					
16	13:12:30	908.5	909.7	907.1	910.7	913.9	912.3	910.0	911.0	909.1	913.0	910.0	910.0	910.36	1.954					
17	13:13:00	911.1	911.6	908.8	912.8	915.9	913.1	911.0	914.0	910.2	913.0	911.0	910.0	911.87	1.962					
18	13:13:30	911.9	913.3	910.5	912.6	916.9	914.9	912.0	915.0	911.7	917.0	913.0	912.0	913.40	2.095					
19	13:14:00	914.5	915.3	912.2	916.2	917.9	916.9	914.0	917.0	913.6	919.0	914.0	914.0	915.38	2.019					
20	13:14:30	914.5	915.8	913.0	915.9	917.9	917.8	915.5	919.0	915.0	920.0	916.0	915.0	916.28	2.013					
21	13:15:00	914.5	915.6	913.9	915.9	918.9	917.9	915.0	919.0	914.7	920.0	916.0	914.0	916.28	2.123					
1		.9976	.9999	.9960	1.0052	1.0021	1.0016	.9989	1.0011	.9988	1.0000	1.0000	.9989							
2		.9993	1.0001	.9968	1.0049	1.0038	1.0015	.9984	1.0039	.9991	.9929	.9995	.9995							
3		.9986	.9992	.9962	1.0046	1.0064	1.0005	.9965	1.0032	.9985	.9988	.9988	.9988							
4		.9998	1.0009	.9964	1.0049	1.0069	.9998	.9960	1.0026	.9983	.9982	.9982	.9982							
5		.9994	.9995	.9959	1.0043	1.0075	1.0033	.9966	1.0032	.9990	.9988	.9977	.9977							
6		.9989	.9994	.9964	1.0038	1.0082	1.0001	.9967	1.0039	.9986	.9973	.9984	.9984							
7		.9992	1.0004	.9977	1.0028	1.0088	1.0002	.9957	1.0034	.9980	.9979	.9979	.9979							
8		.9982	1.0003	.9967	1.0030	1.0092	1.0002	.9972	1.0016	.9991	.9983	.9983	.9983							
9		.9989	.9989	.9964	1.0044	1.0086	1.0001	.9966	1.0032	.9988	.9977	.9977	.9977							
10		.9993	.9991	.9958	1.0042	1.0079	1.0003	.9970	1.0025	.9993	.9981	.9981	.9981							
11		.9990	.9998	.9975	1.0035	1.0086	1.0009	.9966	1.0021	.9991	.9977	.9977	.9977							
12		.9989	.9992	.9964	1.0027	1.0089	1.0012	.9969	1.0002	.9982	1.0002	.9980	.9980							
13		.9994	.9997	.9969	1.0027	1.0077	1.0009	.9968	1.0012	.9987	1.0001	.9979	.9979							
14		.9986	.9994	.9971	1.0010	1.0071	1.0014	.9984	1.0017	.9989	1.0006	.9984	.9973							
15		.9989	.9998	.9974	1.0012	1.0052	1.0013	.9976	1.0020	.9983	1.0020	.9987	.9976							
16		.9980	.9993	.9964	1.0004	1.0039	1.0021	.9996	1.0007	.9986	1.0029	.9996	.9985							
17		.9992	.9997	.9966	1.0010	1.0044	1.0013	.9990	1.0023	.9982	1.0012	.9990	.9979							
18		.9984	.9999	.9968	.9991	1.0038	1.0016	.9985	1.0018	.9981	1.0039	.9996	.9985							
19		.9990	.9999	.9965	1.0009	1.0027	1.0017	.9985	1.0018	.9981	1.0040	.9996	.9985							
20		.9981	.9995	.9964	.9996	1.0010	1.0017	.9991	1.0030	.9986	1.0041	.9997	.9986							
21		.9981	.9993	.9974	.9996	1.0029	1.0018	.9986	1.0030	.9983	1.0041	.9997	.9975							
MEAN		.9988	.9997	.9967	1.0026	1.0060	1.0010	.9976	1.0023	.9986	.9999	.9986	.9982							
S.D.		.0006	.0005	.0005	.0020	.0025	.0007	.0012	.0010	.0004	.0009	.0008	.0005							

SECOND INTERCOMPARISON -- MAY 2-3, 1979  
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	INSTRUMENT IDENTIFICATION NUMBER																22	24
	5	6	7	8	11	13	17	18	19	20								
1	1.0017	.9989	.9982	1.0023	1.0053	1.0010	.9965	1.0007	.9993	.9990							.9975	
2	.9999	.9987	.9967	1.0023	1.0043	1.0013	.9972	1.0007		1.0005							.9986	
3	1.0004	.9992	.9966	1.0030	1.0041	1.0006	.9973	1.0006	.9999	.9996							.9986	
4	1.0013	.9995	.9973	1.0016		1.0014	.9979	1.0020		1.0003							.9986	
5	1.0003	.9998	.9975	1.0034		1.0011	.9977	1.0014		1.0004							.9983	
6	1.0004	.9993	.9971	1.0017	1.0040	1.0010	.9974	1.0006	.9994	1.0005							.9987	
7	.9995	.9991	.9975	1.0022	1.0045	1.0010	.9969	1.0014	.9995	1.0003							.9982	
8	.0004	.9999	.9977	1.0018		1.0014	.9979	1.0028	1.0000	.9992							.9987	
9	1.0002	.9992	.9974	1.0004	1.0035	1.0012	.9972	1.0020	.9995	1.0008							.9985	
10	1.0000	.9990	.9975	1.0037	1.0038	1.0009	.9977	.9999	.9999								.9976	
11	.9987	1.0000	.9977	1.0011	1.0023	1.0011	.9981	1.0013	.9997	1.0014							.9985	
12	.9995	.9993	.9975	1.0028	1.0013	1.0013	.9970	1.0031	1.0001	.9992	.9999						.9990	
13	.9996	.9989	.9971	1.0037	1.0021	1.0012	.9969	1.0015	1.0001	1.0011	.9993						.9985	
14	1.0005	.9999	.9976	1.0029	1.0001	1.0013	.9978	1.0016	.9997	.9990	1.0007						.9988	
15	.9996	.9996	.9968	1.0024	1.0038	1.0012	.9967	1.0020	.9997	.9987	1.0005						.9990	
16	1.0001	1.0002	.9963	1.0026	1.0037	1.0014	.9973	1.0018	.9993	.9990	.9998						.9985	
17	1.0000	.9998	.9961	1.0023	1.0044	1.0018	.9971	1.0007	1.0002	.9998	.9995						.9983	
18	1.0003	.9996	.9963	1.0039	1.0017	1.0020	.9975	1.0019	.9994	.9996	.9995						.9983	
19	1.0000	.9999	.9973	1.0009	1.0052	1.0012	.9967	1.0018	.9990	.9992	.9999						.9988	
20	.9994	.9996	.9962	1.0019	1.0055	1.0010	.9961	1.0023	.9998	1.0004	.9996						.9982	
21	.9994	1.0001	.9970	1.0034	1.0026	1.0013	.9968	1.0021	.9993	1.0003	.9996						.9983	
22	.9988	.9997	.9967	1.0026	1.0060	1.0010	.9976	1.0023	.9986	.9999	.9986						.9982	
MEAN	1.0000	.9995	.9971	1.0024	1.0036	1.0012	.9972	1.0016	.9996	.9999	.9997						.9984	
S.D.	.0007	.0004	.0006	.0009	.0015	.0003	.0005	.0008	.0004	.0008	.0006						.0004	

Third Intercomparison - November 5 and 9, 1979

TABLE 3-1

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	16	19			
1	11:17:00	994.0			1002.7	1009.0	1005.1	1008.0	1010.0		1007.3	1006.2	1007.0	1005.0	1005.1			
2	11:17:30	1003.9			1003.5	1009.8	1005.6	1008.0	1010.0		1007.6	1006.5	1008.0	1005.0	1005.2			
3	11:18:00	1007.9			1003.5	1009.0	1006.3	1009.0	1011.0		1007.6	1007.4	1008.0	1006.0	1004.9			
4	11:18:30	1008.9			1004.3	1009.0	1006.4	1010.0	1011.0		1007.7	1008.4	1008.0	1006.0	1004.5			
5	11:19:00	1011.6			1004.3	1009.8	1006.9	1009.0	1011.0		1008.2	1008.5	1008.0	1007.0	1005.4			
6	11:19:30	1011.8			1004.3	1010.5	1006.7	1010.0	1012.0		1008.5	1008.5	1008.0	1007.0	1005.9			
7	11:20:00	1009.9			1004.3	1009.8	1005.9	1010.0	1011.0		1008.5	1008.5	1007.0	1007.0	1005.4			
8	11:20:30	1009.9			1004.3	1008.3	1005.7	1009.0	1010.0		1007.9	1007.1	1007.0	1006.0	1004.9			
9	11:21:00	1011.8			1005.2	1010.5	1007.2	1010.0	1012.0		1008.6	1009.8	1009.0	1007.0	1005.3			
10	11:21:30	1012.8			1005.2	1010.5	1006.9	1010.0	1012.0		1009.5	1009.2	1009.0	1007.0	1005.8			
11	11:22:00	1011.8			1005.2	1011.3	1006.8	1010.0	1010.0		1008.9	1008.9	1009.0	1007.0	1006.0			
12	11:22:30	1009.9			1004.3	1009.8	1006.7	1010.0	1009.0		1007.9	1008.1	1008.0	1006.0	1004.3			
13	11:23:00	1008.9			1003.5	1008.3	1005.5	1009.0	1008.0		1007.7	1005.6	1007.5	1005.0	1003.9			
14	11:23:30	1009.9			1004.3	1008.3	1005.8	1009.0	1009.0		1007.7	1007.0	1007.5	1005.0	1006.2			
15	11:24:00	1011.8			1005.2	1009.8	1006.6	1010.0	1010.0		1007.8	1006.6	1007.5	1006.0	1004.1			
16	11:24:30	1012.8			1004.3	1009.8	1007.3	1010.0	1010.0		1007.7	1007.5	1007.5	1006.0	1004.3			
17	11:25:00	1018.8			1003.5	1007.5	1004.2	1008.0	1008.0		1006.8	1006.8	1007.0	1004.0	1003.7			
18	11:25:30	1012.8			1003.5	1007.5	1004.8	1008.0	1008.0		1007.3	1007.0	1007.5	1004.0	1005.7			
19	11:26:00	1012.8			1004.3	1007.5	1005.7	1009.0	1010.0		1007.1	1008.0	1008.0	1005.0	1006.1			
20	11:26:30	1015.8			1005.2	1008.3	1005.7	1010.0	1012.0		1007.8	1008.5	1007.5	1006.0	1007.1			
21	11:27:00	1013.8			1004.3	1008.3	1007.2	1009.0	1012.0		1008.3	1009.1	1008.0	1006.0	1007.5			
1		9887			.9974	1.0036	.9993	1.0026	1.0046		1.0020	1.0009	1.0017	.9997	.9998			
2		.9974			.9970	1.0032	.9991	1.0014	1.0034		1.0010	1.0000	1.0014	.9985	.9987			
3		1.0008			.9964	1.0019	.9992	1.0019	1.0038		1.0005	1.0003	1.0009	.9989	.9978			
4		1.0015			.9969	1.0016	.9990	1.0026	1.0036		1.0003	1.0010	1.0006	.9986	.9971			
5		1.0039			.9964	1.0019	.9990	1.0011	1.0031		1.0003	1.0006	1.0001	.9991	.9975			
6		1.0036			.9962	1.0023	.9985	1.0018	1.0038		1.0003	1.0003	.9998	.9986	.9977			
7		1.0022	.9993		.9967	1.0021	.9982	1.0023	1.0033		1.0008	1.0008	.9993	.9993	.9978			
8		1.0028	.9999		.9972	1.0012	.9986	1.0019	1.0029		1.0008	1.0000	.9999	.9989	.9978			
9		1.0036	.9959		.9971	1.0023	.9990	1.0018	1.0038		1.0004	1.0016	1.0008	.9988	.9972			
10		1.0041	1.0003		.9965	1.0018	.9982	1.0013	1.0033		1.0008	1.0005	1.0003	.9983	.9971			
11		1.0034	1.0006		.9969	1.0029	.9985	1.0016	1.0016		1.0005	1.0005	1.0006	.9987	.9977			
12		1.0024	1.0005		.9968	1.0023	.9992	1.0025	1.0015		1.0004	1.0004	1.0005	.9985	.9968			
13		1.0027	1.0018		.9973	1.0021	.9993	1.0028	1.0018		1.0015	.9994	1.0013	.9988	.9977			
14		1.0032	1.0023		.9977	1.0017	.9992	1.0023	1.0023		1.0011	1.0004	1.0004	.9984	.9976			
15		1.0046	1.0008		.9981	1.0026	.9995	1.0028	1.0028		1.0006	.9995	1.0003	.9989	.9970			
16		1.0055	1.0007		.9970	1.0025	1.0000	1.0027	1.0027		1.0004	1.0002	1.0002	.9987	.9970			
17		1.0124	.9997		.9972	1.0011	.9979	1.0016	1.0016		1.0004	1.0004	1.0006	.9977	.9974			
18		1.0065	1.0007		.9972	1.0012	.9985	1.0017	1.0017		1.0010	1.0007	1.0012	.9977	.9994			
19		1.0058	1.0011		.9974	1.0006	.9988	1.0021	1.0030		1.0002	1.0011	1.0011	.9981	.9992			
20		1.0080	1.0002		.9975	1.0005	.9980	1.0022	1.0042		1.0000	1.0007	.9997	.9983	.9993			
21		1.0060	1.0012		.9965	1.0005	.9994	1.0012	1.0042		1.0005	1.0013	1.0002	.9982	.9997			
MEAN		1.0033	1.0003		.9970	1.0019	.9989	1.0020	1.0030		1.0007	1.0005	1.0005	.9986	.9980			
S.D.		.0044	.0015		.0005	.0009	.0006	.0005	.0009		.0005	.0005	.0006	.0005	.0010			

20	23	24	MEAN	S.D.
1006.0		1004.0	1005.34	3.953
1007.0		1005.0	1006.55	2.078
1007.0		1005.0	1007.12	2.006
1007.0		1005.0	1007.40	2.099
1007.0		1006.0	1007.92	2.151
1007.0		1006.0	1008.17	2.356
1007.0		1006.0	1007.66	1.993
1007.0		1005.0	1007.08	1.802
1008.0		1006.0	1008.17	2.506
1009.0		1006.0	1008.71	2.285
1007.0		1006.0	1008.35	2.048
1007.0		1006.0	1007.50	1.890
1000.7		1005.0	1006.19	2.426
1000.7		1006.0	1006.64	2.511
1000.7		1006.0	1007.15	2.830
1000.7		1006.0	1007.28	2.997
1000.6		1004.0	1006.35	4.175
1000.7		1004.0	1006.27	2.846
1000.6		1005.0	1006.94	2.890
1000.7		1004.0	1007.76	3.463
1000.7		1006.0	1007.80	3.142
1.0007		.9987		
1.0005		.9985		
.9999		.9979		
.9996		.9976		
.9991		.9981		
.9986		.9978		
.9993		.9983		
.9999		.9979		
.9998		.9978		
1.0003		.9973		
.9987		.9977		
.9995		.9985		
.9945		.9988		
.9941		.9994		
.9936		.9989		
.9935		.9987		
.9943		.9977		
.9945		.9977		
.9937		.9981		
.9930		.9983		
.9930		.9982		
.9972		.9982		
.0030		.0005		

TABLE 3-2

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	11:36:00	1008.7	1001.0		1001.5	1006.0	1004.2	1008.0	1007.0		1008.1	1007.2	1008.0	1004.0	1003.3			
2	11:36:30	1004.7	1001.0		1002.4	1007.5	1004.5	1008.0	1008.0		1008.6	1007.1	1009.0	1005.0	1005.9			
3	11:37:00	1006.7	1001.0		1001.5	1006.8	1004.7	1009.0	1009.0	1012.0		1008.6	1008.0	1005.0	1005.7			
4	11:37:30	1006.7	1002.0		1002.4	1007.5	1005.4	1009.0	1010.0		1008.7	1007.3	1008.5	1006.0	1006.2			
5	11:38:00	1004.7	1001.0		1001.5	1007.5	1004.1	1008.0	1008.0		1008.0	1006.2	1008.0	1006.0	1005.3			
6	11:38:30	1002.7	1000.0		1001.5	1006.8	1004.4	1008.0	1009.0		1007.8	1006.4	1008.0	1005.5	1005.0			
7	11:39:00	999.8	1000.0		1002.4	1006.8	1004.4	1008.0	1008.0	1012.0		1007.8	1007.7	1007.0	1005.4			
8	11:39:30	1003.7	1001.0		1002.4	1007.5	1005.9	1009.0	1007.0		1009.3	1007.4	1008.5	1007.0	1006.4			
9	11:40:00	1004.7	1005.0		1002.4	1006.8	1006.1	1009.0	1008.0		1008.9	1007.0	1009.0	1007.0	1006.0			
10	11:40:30	1005.7	1005.0		1002.4	1007.5	1005.9	1009.0	1011.0		1009.1	1008.0	1009.0	1007.0	1006.7			
11	11:41:00	1005.7	1007.0		1003.2	1007.5	1005.8	1009.0	1012.0		1008.4	1007.6	1008.0	1007.5	1006.9			
12	11:41:30	1005.7	1007.0		1003.2	1007.5	1006.1	1009.0	1011.0		1008.5	1008.6	1008.0	1007.0	1006.7			
13	11:42:00	998.8	1006.0		1002.4	1006.8	1004.6	1009.0	1001.2	1012.0		1007.8	1007.6	1006.5	1005.9			
14	11:42:30	1005.7	1007.0		1003.2	1006.0	1005.6	1009.0	1001.2		1007.8	1008.0	1006.0	1006.5	1006.3			
15	11:43:00	1008.7	1006.0		1004.1	1007.5	1005.4	1010.0	1001.1		1008.8	1008.0	1008.0	1007.0	1006.7			
16	11:43:30	1002.7	1008.0		1003.2	1008.3	1006.1	1010.0	1000.9		1008.9	1008.2	1007.0	1006.0	1006.7			
17	11:44:00	998.8	1006.0		1002.4	1007.5	1005.4	1010.0	1000.9		1008.6	1008.0	1006.0	1006.0	1006.1			
18	11:44:30	1008.7	1004.0		1002.4	1007.5	1004.9	1009.0	1000.6		1007.8	1006.5	1006.0	1004.5	1005.3			
19	11:45:00	1007.7	1006.0		1002.4	1006.8	1004.9	1009.0	1000.7	1012.0		1008.3	1007.8	1007.0	1005.6			
20	11:45:30	1006.7	1007.0		1003.2	1006.0	1006.1	1009.0	1000.8		1008.6	1006.2	1007.0	1006.0	1006.2			
21	11:46:00	1005.7	1003.0		1003.2	1005.3	1005.8	1009.0	1000.9		1008.4	1007.5		1005.0	1006.4			
1		1.0030	.9954		.9959	1.0004	.9986	1.0023	1.0013		1.0024	1.0015	1.0023	.9984	.9997			
2		.9988	.9951		.9965	1.0016	.9986	1.0021	1.0021		1.0027	1.0012	1.0031	.9991	1.0000			
3		1.0004	.9947		.9952	1.0005	.9984	1.0027	1.0027	1.0056		1.0005	1.0017	.9987	.9994			
4		1.0001	.9955		.9959	1.0009	.9989	1.0024	1.0034		1.0021	1.0007	1.0019	.9995	.9997			
5		.9990	.9954		.9959	1.0018	.9984	1.0023	1.0023		1.0023	1.0005	1.0023	1.0003	.9996			
6		.9973	.9947		.9962	1.0014	.9990	1.0026	1.0036		1.0024	1.0010	1.0026	1.0001	.9994			
7		.9974	.9945		.9969	1.0013	.9989	1.0025	1.0025	1.0065		1.0002	1.0015	.9995	.9999			
8		.9943	.9947		.9961	1.0011	.9995	1.0026	1.0006		1.0029	1.0010	1.0021	1.0006	1.0000			
9		.9982	.9985		.9959	1.0003	.9996	1.0025	1.0015		1.0024	1.0005	1.0025	1.0005	.9995			
10		.9987	.9980		.9954	1.0005	.9989	1.0020	1.0037		1.0021	1.0010	1.0020	1.0000	.9997			
11		.9985	.9998		.9960	1.0003	.9986	1.0018	1.0048		1.0012	1.0004	1.0008	1.0003	.9997			
12		.9985	.9992		.9961	1.0003	.9989	1.0018	1.0038		1.0013	1.0014	1.0008	.9998	.9995			
13		.9931	1.0003		.9967	1.0011	.9989	1.0032	.9955	1.0062		1.0020	1.0018	1.0008	1.0002			
14		.9999	1.0012		.9974	1.0002	.9998	1.0032	.9954		1.0020	1.0022	1.0002	1.0007	1.0005			
15		1.0019	.9993		.9974	1.0008	.9990	1.0037	.9964		1.0026	1.0019	1.0007	.9997	1.0004			
16		.9964	1.0017		.9969	1.0020	.9998	1.0045	.9954		1.0031	1.0025	1.0005	1.0005	1.0006			
17		.9934	1.0005		.9969	1.0020	.9999	1.0045	.9954		1.0031	1.0025	1.0005	1.0005	1.0006			
18		1.0031	.9984		.9968	1.0019	.9993	1.0034	.9950		1.0022	1.0009	1.0004	.9989	.9997			
19		1.0013	.9997		.9961	1.0005	.9986	1.0026	.9944	1.0056		1.0019	1.0006	.9987	.9993			
20		1.0006	1.0009		.9971	.9999	1.0000	1.0029	.9947		1.0025	1.0001	1.0009	.9999	1.0001			
21		1.0001	.9974		.9976	.9997	1.0002	1.0034	.9953		1.0028	1.0019		.9994	1.0008			
MEAN		.9988	.9979		.9964	1.0009	.9991	1.0027	.9994	1.0060	1.0023	1.0012	1.0015	.9998	.9999			
S.D.		.0028	.0025		.0007	.0007	.0006	.0007	.0040	.0004	.0005	.0007	.0009	.0007	.0004			

20	23	24	MEAN	S.D.
1007.0		1003.0	1005.64	2.532
1007.0		1004.0	1005.91	2.402
1006.0		1004.0	1006.32	2.891
1007.0		1005.0	1006.55	2.322
1007.0		1004.0	1005.66	2.366
1007.0		1003.0	1005.36	2.722
1007.0		1003.0	1005.47	3.233
1007.0		1005.0	1006.36	2.541
1009.0		1005.0	1006.53	1.959
		1005.0	1007.02	2.269
1007.0		1005.0	1007.19	2.037
1006.0		1006.0	1007.16	1.855
1006.0		1005.0	1005.74	3.182
1005.0		1004.0	1005.81	2.023
1007.0		1005.0	1006.74	2.299
1007.0		1005.0	1006.29	2.567
1006.0		1005.0	1005.68	3.005
1007.0		1004.0	1005.59	2.397
1007.0		1005.0	1006.35	2.695
1008.0		1005.0	1006.13	2.112
1008.0		1005.0	1005.63	2.325
1.0013		.9974		
1.0011		.9981		
.9997		.9977		
1.0004		.9985		
1.0013		.9983		
1.0016		.9976		
1.0015		.9975		
1.0026		.9986		
		.9985		
		.9980		
		.9978		
.9998		.9978		
.9988		.9988		
1.0003		.9993		
.9992		.9982		
1.0003		.9983		
1.0007		.9987		
1.0005		.9995		
1.0014		.9984		
1.0006		.9987		
1.0019		.9989		
1.0024		.9994		
1.0008		.9984		
.0010		.0006		

TABLE 3-3

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	12:00:00	1009.8	1007.0		1004.0	1000.6	1006.1	1011.0	1011.0	1011.0	1009.5	1006.6	1008.0	1005.0	1007.2			
2	12:00:30	1006.9	1007.0		1004.0	1008.1	1005.6	1011.0	1009.0	1009.0	1009.7	1007.7	1009.0	1005.0	1007.2			
3	12:01:00	1003.9	1007.0		1003.2	1006.6	1006.7	1011.0	1009.0	1012.0	1009.0	1006.6	1009.0	1004.0	1006.1			
4	12:01:30	1004.9	1008.0		1004.0	1007.4	1006.2	1010.0	1009.0	1009.0	1009.8	1007.0	1010.0	1005.0	1006.6			
5	12:02:00	998.0	1008.0		1003.2	1005.9	1005.5	1010.0	1009.0	1009.0	1008.7	1005.7	1009.0	1004.0	1005.7			
6	12:02:30	1001.0	1006.0		1002.3	1006.6	1003.7	1009.0	1007.0	1007.0	1007.4	1005.5	1008.0	1003.0	1005.1			
7	12:03:00	994.1	1009.0		1004.9	1007.4	1006.2	1012.0	1010.0	1010.0	1009.7	1007.9	1010.0	1005.0	1007.1			
8	12:03:30	1006.9	1008.0		1004.9	1007.4	1006.5	1013.0	1009.0	1009.0	1009.8	1008.5	1010.0	1005.0	1007.2			
9	12:04:00	1001.9	1009.0		1004.9	1008.1	1007.2	1013.0	1010.0	1010.0	1010.5	1008.6	1011.0	1006.0	1007.3			
10	12:04:30	1002.9	1010.0		1004.9	1008.9	1006.8	1013.0	1012.0	1012.0	1010.0	1008.4	1010.5	1006.0	1007.7			
11	12:05:00	1004.9	1008.0		1003.2	1005.9	1004.8	1011.0	1010.0	1010.0	1008.5	1006.9	1009.0	1005.0	1006.1			
12	12:05:30	1010.8	1006.0		1002.3	1005.9	1005.4	1010.0	1008.0	1008.0	1007.0	1005.8	1007.0	1003.0	1004.8			
13	12:06:00	1007.8	1004.0		1001.5	1004.4	1003.2	1009.0	1006.0	1012.0	1006.4	1005.3	1006.5	1002.0	1004.0			
14	12:06:30	1008.8	1008.0		1003.2	1005.9	1004.5	1010.0	1008.0	1008.0	1007.9	1007.2	1006.5	1003.0	1005.2			
15	12:07:00	1007.8	1005.0		1001.5	1004.4	1004.4	1010.0	1007.0	1007.0	1007.3	1005.5	1008.0	1003.0	1004.4			
16	12:07:30	1006.9	1005.0		1001.5	1003.6	1003.0	1010.0	1007.0	1007.0	1006.6	1005.6	1007.0	1002.0	1004.3			
17	12:08:00	1003.9	1006.0		1001.5	1003.6	1003.6	1009.0	1007.0	1004.0	1007.2	1005.8	1008.0	1001.0	1004.3			
18	12:08:30	1004.9	1005.0		1002.3	1005.1	1003.9	1010.0	1007.0	1007.0	1007.2	1006.5	1009.0	1002.0	1004.6			
19	12:09:00	1003.9	1003.0		1001.5	1004.4	1003.9	1010.0	1007.0	1007.0	1007.6	1004.7	1008.0	1003.0	1004.9			
20	12:09:30	1003.9	1004.0		1002.3	1004.4	1003.9	1010.0	1008.0	1008.0	1007.9	1006.1	1009.0	1003.0	1004.9			
21	12:10:00	1003.9	1004.0		1002.3	1003.6	1004.1	1010.0	1007.0	1004.0	1008.2	1005.6	1009.0	1003.0	1005.1			
1		1.0027	.9999		.9969	.9935	.9990	1.0038	1.0038	1.0038	1.0024	.9995	1.0009	.9979	1.0001			
2		.9994	.9995		.9965	1.0006	.9981	1.0035	1.0015	1.0015	1.0022	1.0002	1.0015	.9975	.9997			
3		.9968	.9999		.9961	.9995	.9996	1.0038	1.0018	1.0018	1.0018	.9995	1.0018	.9969	.9990			
4		.9976	1.0006		.9967	1.0000	.9989	1.0026	1.0016	1.0016	1.0024	.9997	1.0026	.9977	.9993			
5		.9920	1.0019		.9972	.9999	.9995	1.0039	1.0029	1.0029	1.0026	.9997	1.0029	.9980	.9997			
6		.9957	1.0007		.9970	1.0013	.9984	1.0037	1.0017	1.0017	1.0021	1.0002	1.0027	.9977	.9998			
7		.9872	1.0020		.9980	1.0004	.9993	1.0050	1.0030	1.0030	1.0027	1.0009	1.0030	.9981	1.0001			
8		.9990	1.0001		.9970	.9995	.9986	1.0050	1.0010	1.0010	1.0018	1.0006	1.0020	.9971	.9993			
9		.9942	1.0012		.9972	1.0003	.9994	1.0052	1.0022	1.0022	1.0027	1.0008	1.0032	.9982	.9995			
10		.9946	1.0016		.9966	1.0005	.9984	1.0046	1.0036	1.0036	1.0016	1.0000	1.0021	.9977	.9993			
11		.9982	1.0013		.9965	.9992	.9981	1.0042	1.0032	1.0032	1.0018	1.0002	1.0022	.9983	.9994			
12		1.0047	.9999		.9963	.9998	.9993	1.0039	1.0019	1.0019	1.0009	.9997	1.0022	.9969	.9987			
13		1.0024	.9986		.9961	.9990	.9978	1.0036	1.0006	1.0006	1.0010	.9999	1.0011	.9966	.9986			
14		1.0024	1.0016		.9968	.9995	.9981	1.0036	1.0016	1.0016	1.0015	1.0008	1.0001	.9966	.9988			
15		1.0022	.9994		.9959	.9988	.9986	1.0044	1.0014	1.0014	1.0017	.9999	1.0024	.9974	.9988			
16		1.0018	.9999		.9964	.9985	.9979	1.0049	1.0019	1.0019	1.0015	1.0005	1.0019	.9969	.9992			
17		.9989	1.0010		.9965	.9986	.9986	1.0040	1.0020	1.0020	1.0022	1.0008	1.0030	.9960	.9993			
18		.9993	.9994		.9967	.9995	.9983	1.0044	1.0014	1.0014	1.0024	1.0009	1.0034	.9964	.9990			
19		.9987	.9978		.9963	.9992	.9987	1.0048	1.0018	1.0018	1.0024	.9995	1.0028	.9976	.9997			
20		.9983	.9984		.9967	.9998	.9983	1.0044	1.0024	1.0024	1.0023	1.0005	1.0034	.9974	.9993			
21		.9985	.9986		.9969	.9987	.9987	1.0045	1.0025	1.0025	1.0023	1.0001	1.0035	.9976	.9996			
MEAN		.9983	1.0002		.9967	.9993	.9986	1.0042	1.0021	1.0021	1.0020	1.0002	1.0023	.9974	.9993			
S.D.		.0040	.0017		.0005	.0015	.0005	.0006	.0008	.0008	.0005	.0005	.0009	.0006	.0006			



20	23	24	MEAN	S.D.
1008.0		1006.0	1007.13	2.026
1009.0		1006.0	1007.51	1.947
1008.0		1005.0	1007.14	2.563
1009.0		1006.0	1007.35	2.009
1007.0		1005.0	1006.05	3.083
1006.0		1004.0	1005.33	2.288
1008.0		1006.0	1006.95	4.231
1009.0		1006.0	1007.94	2.175
1009.0		1006.0	1007.77	2.900
1009.0		1007.0	1008.36	2.739
1006.0		1005.0	1006.74	2.253
1005.0		1004.0	1006.07	2.394
1005.0		1004.0	1005.41	2.719
1006.0		1003.0	1006.37	2.075
1006.0		1004.0	1005.58	2.258
1005.0		1004.0	1005.11	2.288
1006.0		1004.0	1006.99	2.273
1007.0		1004.0	1005.61	2.314
1007.0		1004.0	1005.21	2.358
1007.0		1004.0	1005.60	2.396
1007.0		1005.0	1005.45	2.296
1.0009		.9989		
1.0015		.9985		
1.0009		.9979		
1.0016		.9987		
1.0009		.9990		
1.0007		.9987		
1.0010		.9991		
1.0010		.9981		
1.0012		.9982		
1.0006		.9986		
.9993		.9993		
.9989		.9979		
.9996		.9986		
.9994		.9986		
1.0004		.9984		
.9999		.9989		
1.0010		.9990		
1.0014		.9984		
1.0018		.9988		
1.0014		.9984		
1.0015		.9995		
1.0007		.9986		
.0008		.0004		

TABLE 3-4

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	12:30:00	1000.8			996.5	1000.7	1000.2	1004.0	1004.0		1002.2	1001.3	1001.0	1003.5	1000.9			
2	12:30:30	1001.7			997.4	1000.0	999.4	1003.0	1004.0		1001.9	1001.3	1000.0	1003.0	1001.2			
3	12:31:00	1002.7			996.5	1000.7	999.1	1003.0	1001.0	1017.0	1002.6	1001.5	1000.5	1002.0	1000.5			
4	12:31:30	1001.7			997.4	1000.0	999.9	1003.0	1001.0		1002.7	999.6	1001.0	1001.0	1000.5			
5	12:32:00	1001.7			997.4	1000.0	1000.3	1003.0	1001.0		1003.0	1001.2	1001.5	1002.0	1000.8			
6	12:32:30	1002.7	991.0		997.2	1001.5	1000.5	1003.0	1002.0		1003.0	1000.0	1003.0	1004.0	1000.7			
7	12:33:00	999.8	988.0		996.5	999.2	999.1	1003.0	1001.0	1008.0	1001.5	1000.1	1000.0	1002.0	1000.1			
8	12:33:30	994.9	987.0		996.5	999.2	998.9	1003.0	1001.0		1002.2	998.7	1001.0	1003.0	1000.2			
9	12:34:00	996.8	990.0		997.4	1000.8	999.7	1003.0	1002.0		1002.3	999.8	1001.0	1003.0	1000.4			
10	12:34:30	990.0	989.0		997.4	1000.8	999.7	1002.0	1001.0		1002.0	1000.1	1000.0	1002.0	1000.3			
11	12:35:00	997.8	990.0		996.5	1000.0	998.9	1002.0	1001.0	1008.0	1001.8	999.6	1000.0	1002.0	1000.2			
12	12:35:30	996.8	987.0		996.5	999.2	997.2	1002.0	999.0		1001.2	999.4	999.0	1002.0	999.6			
13	12:36:00	997.8	987.0		995.7	1000.7	998.1	1002.0	999.0		1000.6	999.2	999.0	1001.0	999.9			
14	12:36:30	995.9	989.0		997.4	1000.0	998.6	1002.0	1000.0		1001.0	1000.7	999.0	1001.5	999.5			
15	12:37:00	993.9	990.0		997.4	1000.7	998.9	1002.0	999.0	1008.0	1002.3	1000.1	1000.0	1001.5	999.9			
16	12:37:30	993.9	990.0		997.4	1000.7	1000.1	1003.0	999.0		1002.3	1000.1	1000.0	1002.0	1000.0			
17	12:38:00	998.0	989.0		998.2	1000.7	999.7	1002.0	1000.0		1002.6	1001.5	1001.0	1001.5	1000.4			
18	12:38:30	994.9	988.0		996.5	1000.0	998.1	1002.0	999.0		1001.8	1000.0	999.0	1001.0	999.1			
19	12:39:00	997.8	989.0		996.5	1000.0	998.6	1002.0	1000.0	1010.0	1001.8	999.7	1000.0	1001.0	999.3			
20	12:39:30	998.8	987.0		995.7	997.7	998.7	1002.0	998.0		1001.8	1000.0	1000.0	1001.0	998.5			
21	12:40:00	998.8	990.0		997.4	1001.5	999.5	1003.0	1000.0		1001.9	1001.4	999.0	1001.0	999.6			
1		9997			9954	9996	9991	1.0029	1.0029		1.0011	1.0002	9999	1.0024	9998			
2		1.0009			9966	9992	9986	1.0022	1.0032		1.0011	1.0005	9992	1.0022	1.0004			
3		1.0007			9945	9987	9971	1.0010	9990	1.0149	1.0006	9998	9995	1.0000	9985			
4		1.0011			9968	9994	9993	1.0024	1.0004		1.0021	9990	1.0004	1.0004	9999			
5		1.0007			9964	9997	9993	1.0020	1.0000		1.0020	1.0002	1.0005	1.0010	9998			
6		1.0020	9903		9965	1.0008	9998	1.0023	1.0013		1.0031	9993	1.0023	1.0033	1.0000			
7		1.0000	9882		9967	9994	9993	1.0032	1.0012	1.0082	1.0017	1.0003	1.0002	1.0022	1.0003			
8		9960	9881		9976	1.0003	1.0000	1.0041	1.0021		1.0033	9998	1.0021	1.0041	1.0013			
9		9971	9903		9977	1.0011	1.0000	1.0033	1.0023		1.0024	1.0001	1.0013	1.0033	1.0007			
10		9994	9896		9980	1.0014	1.0003	1.0026	1.0016		1.0026	1.0007	1.0006	1.0026	1.0009			
11		9981	9903		9968	1.0003	9992	1.0023	1.0013	1.0083	1.0021	1.0001	1.0003	1.0023	1.0005			
12		9986	9887		9983	1.0010	9995	1.0038	1.0008		1.0030	1.0012	1.0008	1.0038	1.0014			
13		9995	9887		9974	1.0024	9998	1.0037	1.0007		1.0025	1.0009	1.0007	1.0027	1.0006			
14		9973	9904		9988	1.0014	1.0000	1.0034	1.0014		1.0024	1.0021	1.0004	1.0029	1.0009			
15		9944	9905		9979	1.0012	9994	1.0025	9995	1.0085	1.0028	1.0006	1.0005	1.0020	1.0004			
16		9948	9909		9983	1.0016	1.0010	1.0039	9999		1.0032	1.0010	1.0009	1.0029	1.0009			
17		9990	9892		9984	1.0009	9999	1.0032	1.0002		1.0030	1.0017	1.0012	1.0017	1.0006			
18		9964	9895		9980	1.0015	9996	1.0035	1.0005		1.0033	1.0015	1.0005	1.0025	1.0006			
19		9982	9894		9969	1.0004	9990	1.0024	1.0004	1.0104	1.0023	1.0001	1.0004	1.0014	9997			
20		1.0004	9886		9973	9993	1.0003	1.0036	9996		1.0034	1.0016	1.0016	1.0026	1.0001			
21		9994	9906		9980	1.0021	1.0001	1.0036	1.0006		1.0025	1.0020	9996	1.0016	1.0002			
MEAN		9937	9896		9973	1.0006	9996	1.0030	1.0009	1.0101	1.0024	1.0006	1.0006	1.0023	1.0004			
S.D.		0.0021	0.0009		0.0010	0.0010	0.0008	0.0008	0.0011	0.0029	0.0008	0.0009	0.0008	0.0010	0.0006			

20	23	24	MEAN	S. D.
999.0		1000.0	1001.08	2.076
999.0		999.0	1000.84	1.906
1001.0		999.0	1002.03	4.647
1001.0		999.0	1000.60	1.491
1001.0		999.0	1000.97	1.510
1001.0		1000.0	1000.74	3.338
999.0		999.0	999.75	4.133
1000.0		999.0	998.90	4.111
1000.0		999.0	999.66	3.346
999.0		999.0	999.36	3.274
998.0		999.0	999.67	3.760
998.0		998.0	998.24	3.660
999.0		998.0	998.30	3.621
998.0		998.0	998.61	3.242
1000.0		999.0	999.51	3.961
1000.0		999.0	999.11	3.437
1001.0		1000.0	999.83	3.389
1000.0		999.0	998.46	3.558
1000.0		998.0	999.59	4.231
1000.0		998.0	998.37	3.693
1000.0		999.0	999.44	3.088
.9979		.9989		
.9982		.9982		
.9990		.9970		
1.0004		.9984		
1.0000		.9980		
1.0003		.9993		
.9992		.9992		
1.0011		1.0001		
1.0003		.9993		
.9996		.9996		
.9983		.9993		
.9998		.9998		
1.0007		.9997		
.9994		.9994		
1.0005		.9995		
1.0009		.9999		
1.0012		1.0002		
1.0015		1.0005		
1.0004		.9984		
1.0016		.9996		
1.0006		.9996		
1.0000		.9992		
.0011		.0008		

TABLE 3- 5

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 5: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	13:20:00	983.6			986.9	991.7	989.7	994.0	994.0	985.0	993.8	992.8	994.0	998.0	997.5			
2	13:20:30	977.7	989.0		987.8	991.7	989.9	993.0	993.0	995.0	993.7	992.5	994.0	991.0	991.3			
3	13:21:00	977.7	991.0		986.9	992.4	988.5	994.0	994.0	996.0	992.8	993.1	993.0	991.0	990.7			
4	13:21:30	987.5	989.0		986.1	990.9	987.1	993.0	993.0	995.0	991.7	990.5	991.0	990.5	989.6			
5	13:22:00	969.9	991.0		985.2	990.1	987.2	993.0	993.0	993.0	991.1	990.2	991.0	989.5	989.4			
6	13:22:30	976.8	991.0		985.2	990.1	987.2	993.0	993.0	994.0	991.1	990.2	990.0	990.0	988.8			
7	13:23:00	990.5	988.0		984.4	988.6	985.8	991.0	994.0	994.0	990.7	989.9	989.0	989.0	988.3			
8	13:23:30	989.5	989.0		984.4	989.4	986.1	992.0	994.0	994.0	990.0	990.2	989.0	989.0	988.3			
9	13:24:00	985.6	989.0		984.4	989.4	986.4	992.0	993.0	994.0	989.8	989.4	989.0	988.0	987.8			
10	13:24:30	974.8	990.0		984.4	989.4	986.4	992.0	993.0	994.0	989.8	989.4	989.0	988.0	987.7			
11	13:25:00	973.8	986.0		985.2	990.1	986.4	992.0	992.0	992.0	989.5	991.1	988.0	988.0	987.9			
12	13:25:30	985.6	988.0		984.4	989.4	986.2	992.0	991.0	991.0	989.4	989.5	988.0	988.0	987.8			
13	13:26:00	994.4	987.0		985.2	990.1	986.0	992.0	993.0	993.0	989.8	990.5	988.0	988.5	988.2			
14	13:26:30	991.1	987.0		984.4	990.1	985.4	992.0	992.0	1002.0	990.0	989.3	988.0	988.0	988.0			
15	13:27:00	980.7	989.0		985.2	989.4	986.4	992.0	993.0	1002.0	998.1	991.0	988.0	989.0	988.3			
16	13:27:30	989.5	990.0		985.2	990.1	986.2	992.0	993.0	994.0	989.7	989.9	987.0	988.0	988.4			
17	13:28:00	974.8	990.0		985.2	990.9	986.1	991.0	994.0	1002.0	989.1	990.1	986.0	990.0	988.2			
18	13:28:30	978.7	989.0		985.2	990.1	986.2	991.0	994.0	998.0	989.0	989.8	986.0	990.0	987.9			
19	13:29:00	982.6	990.0		985.2	990.1	986.2	992.0	994.0	1002.0	989.1	990.1	986.0	990.0	987.9			
20	13:29:30	987.5	989.0		985.2	989.4	985.9	991.0	994.0	1002.0	989.5	990.9	986.0	989.0	987.5			
21	13:30:00	994.4	990.0		985.2	990.1	986.0	991.0	994.0	1002.0	989.1	988.8	985.0	989.0	987.7			
1		9928			9961	1.0010	9990	1.0033	1.0033	9983	1.0031	1.0021	1.0033	9993	1.0000			
2		9871	9985		9973	1.0013	9995	1.0026	1.0046		1.0033	1.0021	1.0036	1.0006	1.0000			
3		9873	1.0008		9964	1.0022	9982	1.0038	1.0050		1.0026	1.0029	1.0028	1.0008	1.0005			
4		9977	9992		9963	1.0012	9973	1.0033	1.0053		1.0020	1.0007	1.0013	1.0007	9998			
5		9815	1.0028		9970	1.0019	9989	1.0049	1.0049		1.0029	1.0028	1.0028	1.0013	1.0012			
6		9881	1.0025		9966	1.0016	9986	1.0045	1.0055		1.0026	1.0017	1.0015	1.0015	1.0003			
7		1.0023	9998		9961	1.0004	9976	1.0028	1.0059	9967	1.0025	1.0017	1.0008	1.0008	1.0001			
8		1.0003	9997		9951	9993	9968	1.0028	1.0048	1.0129	1.0008	1.0010	9997	9997	9950			
9		9968	1.0003		9956	1.0007	9974	1.0023	1.0053	1.0134	1.0007	1.0006	9993	9993	9991			
10		9849	1.0023		9964	1.0017	9984	1.0043	1.0053	1.0043	1.0021	1.0021	1.0013	1.0063	1.0000			
11		9857	9981		9972	1.0022	9987	1.0031	1.0041	1.0142	1.0016	1.0032	1.0001	1.0001	1.0000			
12		9973	9998		9961	1.0012	9979	1.0036	1.0028	1.0004	1.0014	1.0019	9998	9998	9996			
13		1.0058	9984		9965	1.0015	9974	1.0034	1.0044	1.0004	1.0008	1.0019	9994	9994	9996			
14		1.0021	9980		9954	1.0011	9974	1.0031	1.0031	1.0132	1.0010	1.0013	9990	9990	9990			
15		9918	1.0002		9964	1.0006	9978	1.0032	1.0042	1.0133	1.0013	1.0022	9992	1.0002	9995			
16		1.0007	1.0012		9964	1.0013	9974	1.0032	1.0042	1.0053	1.0007	1.0011	9992	1.0012	9996			
17		9883	1.0016		9968	1.0025	9977	1.0026	1.0057	1.0130	1.0009	1.0017	9976	1.0014	9998			
18		9906	1.0010		9971	1.0021	9981	1.0030	1.0060	1.0101	1.0010	1.0018	9979	1.0020	9998			
19		9930	1.0012		9964	1.0013	9974	1.0033	1.0053	1.0134	1.0004	1.0018	9972	1.0012	9998			
20		986	1.0001		9962	1.0005	9969	1.0021	1.0051	1.0132	1.0004	1.0020	9978	1.0001	9984			
21		1.0053	1.0009		9960	1.0010	9968	1.0019	1.0049	1.0138	1.0000	9997	9958	9999	9986			
MEAN		9943	1.0003		9964	1.0013	9978	1.0032	1.0048	1.0092	1.0015	1.0016	9999	1.0004	9997			
S.D.		0070	0014		0006	0007	0008	0008	0009	0060	0010	0009	0022	0009	0007			

	20	23	24	MEAN	S.D.
	991.0	988.9	990.0	990.73	2.966
	991.0	989.0	990.0	990.44	4.069
	989.0	988.5	989.0	990.24	4.253
	988.0	987.5	989.0	989.76	2.400
	987.0	986.5	988.0	988.19	5.569
	986.0	986.7	988.0	988.54	4.077
	985.0	986.2	986.0	988.21	2.670
	984.0	985.9	986.8	989.25	4.309
	984.0	985.5	986.0	988.72	4.382
	984.0	985.2	986.0	987.74	4.509
	984.0	985.6	986.0	987.92	5.647
	984.0	985.3	986.0	988.24	3.475
	984.2	985.6	987.0	988.62	2.891
	983.0	985.3	986.0	988.97	4.363
	984.0	985.5	987.0	983.81	4.690
	983.0	985.8	987.0	988.80	2.955
	982.0	985.9	987.0	988.39	5.434
	982.0	985.7	986.0	988.03	4.513
	982.0	986.2	987.0	988.77	4.767
	981.0	985.0	987.0	988.92	4.395
	982.0	985.7	986.0	989.12	4.755
1.0003	.9982	.9993	.9993		
1.0006	.9985	.9996	.9996		
.9987	.9987	.9987	.9987		
.9982	.9977	.9982	.9982		
.9980	.9983	.9983	.9983		
.9974	.9981	.9981	.9981		
.9967	.9980	.9980	.9980		
.9967	.9966	.9966	.9966		
.9952	.9967	.9967	.9967		
.9962	.9978	.9978	.9978		
.9960	.9976	.9976	.9976		
.9957	.9970	.9970	.9970		
.9953	.9969	.9969	.9969		
.9940	.9963	.9963	.9963		
.9941	.9970	.9970	.9970		
.9935	.9975	.9975	.9975		
.9939	.9976	.9976	.9976		
.9931	.9974	.9974	.9974		
.9940	.9968	.9968	.9968		
.9928	.9965	.9965	.9965		
.9959	.9974	.9974	.9974		
.0023	.0007	.0007	.0007		

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
RUN 6: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		
		1	3	5	7	8	9	10	11	12	13	14	17	18	19					
1	13:41:00	981.1	972.0	979.1	983.4	981.5	985.4	984.8	984.2	983.5	982.0	982.0	982.0	982.1						
2	13:41:30	979.2	973.0	979.1	983.4	980.4	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.2						
3	13:42:00	980.2	976.0	979.1	984.2	981.5	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.0						
4	13:42:30	982.1	976.0	980.0	984.9	982.2	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.2						
5	13:43:00	982.1	976.0	980.0	984.9	982.2	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.4						
6	13:43:30	979.2	979.0	981.7	986.4	982.0	985.4	985.0	984.2	983.4	982.0	982.0	982.0	983.9						
7	13:44:00	983.4	979.0	980.0	983.4	983.4	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.8						
8	13:44:30	982.1	976.0	981.7	986.4	982.0	985.4	985.0	984.2	983.4	982.0	982.0	982.0	985.3						
9	13:45:00	983.1	973.0	981.7	987.2	984.3	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.9						
10	13:45:30	987.0	978.0	981.7	986.4	983.9	985.4	985.0	984.2	983.4	982.0	982.0	982.0	985.1						
11	13:46:00	984.6	976.0	982.5	986.4	983.8	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.7						
12	13:46:30	983.5	976.0	983.7	985.7	983.7	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.6						
13	13:47:00	979.0	978.0	981.7	987.4	984.1	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.8						
14	13:47:30	986.0	976.0	982.5	986.4	983.1	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.6						
15	13:48:00	987.0	973.0	980.0	984.2	983.6	985.4	985.0	984.2	983.4	982.0	982.0	982.0	984.6						
16	13:48:30	986.0	973.0	980.0	983.4	983.0	985.4	985.0	984.2	983.4	982.0	982.0	982.0	983.9						
17	13:49:00	985.1	973.0	980.0	984.2	982.7	985.4	985.0	984.2	983.4	982.0	982.0	982.0	983.9						
18	13:49:30	984.1	976.0	980.0	982.7	982.2	985.4	985.0	984.2	983.4	982.0	982.0	982.0	983.6						
19	13:50:00	976.2	977.0	982.7	981.4	981.4	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.0						
20	13:50:30	982.1	975.0	981.3	981.3	981.3	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.5						
21	13:51:00	982.1	971.0	981.1	981.1	981.1	985.4	985.0	984.2	983.4	982.0	982.0	982.0	982.7						
1	9886	9893	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865						
2	9869	9896	9868	9868	9868	9868	9868	9868	9868	9868	9868	9868	9868	9868						
3	9876	9893	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865						
4	9886	9898	9859	9859	9859	9859	9859	9859	9859	9859	9859	9859	9859	9859						
5	9872	9890	9859	9859	9859	9859	9859	9859	9859	9859	9859	9859	9859	9859						
6	9852	9880	9827	9827	9827	9827	9827	9827	9827	9827	9827	9827	9827	9827						
7	9823	9852	9800	9800	9800	9800	9800	9800	9800	9800	9800	9800	9800	9800						
8	9870	9893	9866	9866	9866	9866	9866	9866	9866	9866	9866	9866	9866	9866						
9	18006	9883	9871	9871	9871	9871	9871	9871	9871	9871	9871	9871	9871	9871						
10	18026	9884	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873						
11	9712	9830	9816	9816	9816	9816	9816	9816	9816	9816	9816	9816	9816	9816						
12	9790	9825	9803	9803	9803	9803	9803	9803	9803	9803	9803	9803	9803	9803						
13	18043	9821	9809	9809	9809	9809	9809	9809	9809	9809	9809	9809	9809	9809						
14	18007	9895	9854	9854	9854	9854	9854	9854	9854	9854	9854	9854	9854	9854						
15	18020	9878	9857	9857	9857	9857	9857	9857	9857	9857	9857	9857	9857	9857						
16	18020	9887	9867	9867	9867	9867	9867	9867	9867	9867	9867	9867	9867	9867						
17	18010	9887	9867	9867	9867	9867	9867	9867	9867	9867	9867	9867	9867	9867						
18	9898	9896	9854	9854	9854	9854	9854	9854	9854	9854	9854	9854	9854	9854						
19	9836	9894	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865	9865						
20	9896	9824	9857	9857	9857	9857	9857	9857	9857	9857	9857	9857	9857	9857						
21	9899	9886	9868	9868	9868	9868	9868	9868	9868	9868	9868	9868	9868	9868						
MEAN		9882	9898	9867	9867	9866	9869	9869	9869	9869	9869	9869	9869	9869						
S.E.		0.083	0.026	0.018	0.017	0.017	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008						

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20	23	24	MEAN	S.D.
984.0	979.6	981.0	982.51	4.583
984.0	979.6	981.0	982.21	3.572
983.0	980.4	981.5	982.57	2.838
984.0	980.8	982.0	984.07	4.236
985.0	981.2	982.0	984.88	5.243
985.0	981.0	982.0	983.97	2.917
985.0	981.1	982.0	982.77	5.454
986.0	982.1	983.0	985.06	3.766
987.0	981.5	983.0	984.51	3.886
988.0	982.0	983.0	984.41	6.666
989.0	981.3	984.0	982.91	8.724
989.0	981.0	983.5	983.34	6.711
989.0	981.6	983.5	985.76	3.886
989.0	981.4	984.0	985.31	4.013
988.0	981.3	983.0	985.04	4.405
987.0	980.8	982.5	984.04	3.867
987.0	981.4	982.5	984.08	3.862
985.0	980.4	982.0	984.31	4.335
985.0	979.5	981.0	982.51	3.310
985.0	979.3	981.0	982.49	3.194
986.0	979.2	981.0	982.23	3.939
1.0015	.9970	.9985		
1.0018	.9973	.9988		
1.0004	.9975	.9989		
.9999	.9967	.9979		
1.0001	.9963	.9971		
1.0010	.9970	.9980		
1.0023	.9983	.9992		
1.0010	.9970	.9979		
1.0025	.9969	.9985		
1.0037	.9976	.9986		
1.0062	.9984	1.0011		
1.0058	.9976	1.0002		
1.0033	.9958	.9977		
1.0037	.9960	.9987		
1.0030	.9962	.9979		
1.0030	.9967	.9984		
1.0030	.9973	.9984		
1.0007	.9960	.9977		
1.0025	.9969	.9985		
1.0026	.9967	.9985		
1.0038	.9969	.9987		
1.0025	.9970	.9985		
.0017	.0007	.0009		

TABLE 3-7

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		
		1	3	5	7	8	9	10	11	12	13	14	17	18	19					
1	14:02:00	979.2	973.0		974.9	977.4	977.8	980.9	986.0		980.8	979.0	977.0	980.0	978.4					
2	14:02:30	979.2	972.0		973.2	976.7	976.9	980.9	985.0		979.0	976.7	975.0	979.0	977.6					
3	14:03:00	977.3	972.0		973.2	975.9	975.5	979.9	983.0		977.9	976.9	974.0	977.0	976.4					
4	14:03:30	975.3	971.0		972.4	974.4	974.0	978.9	982.0		977.7	974.9	973.0	976.0	975.4					
5	14:04:00	981.2	971.0		974.0	976.7	975.9	980.9	982.0		977.7	975.9	975.0	977.0	976.3					
6	14:04:30	978.2	969.0		971.5	976.7	975.2	978.9	980.0		978.4	974.2	974.0	975.0	974.7					
7	14:05:00	975.3	967.0		971.5	976.7	972.8	976.8	979.0		977.6	974.2	972.0	975.0	974.1					
8	14:05:30	969.4	966.0		971.5	973.6	973.9	977.8	976.0		976.9	973.6	972.5	974.0	974.0					
9	14:06:00	969.4	958.0		970.7	974.4	972.4	976.8	973.0		976.9	973.2	973.0	973.0	974.2					
10	14:06:30	971.4	954.0		970.7	972.9	970.8	976.8	973.0		977.6	973.0	973.0	971.0	973.3					
11	14:07:00	975.3	957.0		970.7	973.6	972.6	976.8	977.0		976.1	972.7	974.0	973.0	973.5					
12	14:07:30	972.4	956.0		969.8	972.1	972.2	975.8	976.0		977.0	972.7	973.5	972.0	972.6					
13	14:08:00	972.4	964.0		969.0	971.4	971.4	976.8	976.0		976.5	971.9	971.5	972.0	971.5					
14	14:08:30	976.3	963.0		969.0	972.1	972.3	975.8	977.0		974.6	973.0	972.0	972.0	971.8					
15	14:09:00	973.3	962.0		969.0	972.9	971.3	976.8	977.0		974.9	972.7	971.0	973.0	971.3					
16	14:09:30	966.5	958.0		969.0	972.1	972.0	975.8	978.0		974.0	972.4	971.0	973.0	971.5					
17	14:10:00	963.5	963.0		968.1	972.9	970.8	976.8	977.0		974.0	971.9	970.0	971.0	970.6					
18	14:10:30	970.4	961.0		968.1	972.1	969.8	973.8	977.0		972.9	971.8	969.0	971.5	969.9					
19	14:11:00	970.4	964.0		967.3	972.1	969.0	973.8	977.0		975.0	970.1	968.0	971.5	969.5					
20	14:11:30	970.4	963.0		966.4	972.1	968.5	972.8	976.0		971.2	970.1	967.0	970.5	968.9					
21	14:12:00	967.5	963.0		967.3	971.4	968.2	972.8	975.0		970.2	971.5	967.0	970.0	968.8					
1		1.0008	.9945		.9964	.9990	.9994	1.0025	1.0078		1.0024	1.0006	.9986	1.0016	1.0000					
2		1.0019	.9945		.9957	.9993	.9995	1.0036	1.0078		1.0016	.9993	.9976	1.0016	1.0002					
3		1.0006	.9951		.9964	.9991	.9987	1.0032	1.0064		1.0074	1.0002	.9972	1.0003	.9996					
4		.9991	.9947		.9962	.9982	.9978	1.0028	1.0060		1.0122	.9987	.9968	.9999	1.0023					
5		1.0051	.9946		.9977	1.0005	.9996	1.0048	1.0059		.9966	.9996	.9987	1.0008	1.0000					
6		1.0028	.9934		.9959	1.0012	.9997	1.0035	1.0046		1.0046	.9987	.9985	.9995	.9992					
7		1.0007	.9922		.9968	1.0021	.9981	1.0022	1.0045		1.0096	.9996	.9973	1.0004	.9994					
8		.9961	.9926		.9982	1.0004	1.0007	1.0047	1.0029		1.0038	1.0004	.9993	1.0008	1.0008					
9		.9962	.9845		.9975	1.0013	.9993	1.0038	.9999		1.0112	1.0001	.9999	.9999	1.0011					
10		.9986	.9807		.9979	1.0002	.9980	1.0042	1.0003		1.0157	1.0003	1.0003	.9982	1.0006					
11		1.0013	.9826		.9966	.9996	.9986	1.0029	1.0031		1.0185	.9987	1.0000	.9990	.9995					
12		.9999	.9831		.9972	.9996	.9997	1.0034	1.0036		1.0077	1.0002	1.0010	.9995	1.0001					
13		1.0007	.9921		.9972	.9997	.9997	1.0032	1.0044		1.0049	1.0002	.9998	1.0003	.9998					
14		1.0042	.9805		.9967	.9999	1.0001	1.0037	1.0049		1.0025	1.0008	.9998	.9998	.9996					
15		1.0017	.9901		.9973	1.0013	.9996	1.0032	1.0055		1.0033	1.0011	.9993	1.0004	.9996					
16		.9945	.9857		.9970	1.0002	1.0001	1.0040	1.0063		1.0125	1.0002	.9991	1.0011	.9996					
17		.9922	.9917		.9970	1.0019	.9997	1.0039	1.0092		1.0092	1.0009	.9989	.9999	.9995					
18		.9993	.9897		.9970	1.0011	.9987	1.0028	1.0061		1.0092	1.0008	.9979	1.0005	.9988					
19		1.0000	.9934		.9968	1.0017	.9985	1.0035	1.0068		1.0047	.9997	.9975	1.0011	.9991					
20		.9924	.9959		.9959	1.0018	.9991	1.0025	1.0058		1.0141	.9997	.9965	1.0001	.9985					
21		.9976	.9930		.9974	1.0017	.9984	1.0031	1.0054		1.0105	1.0004	.9971	1.0002	.9990					
MEAN		.9997	.9905		.9969	1.0005	.9991	1.0034	1.0050		1.0090	1.0001	.9986	1.0002	.9998					
S.D.		.0031	.0045		.0007	.0011	.0008	.0007	.0021		.0056	.0008	.0013	.0008	.0009					



20	23	24	MEAN	S.D.
978.0	976.7	977.0	978.41	2.965
976.0	975.0	976.0	977.39	3.148
975.0	974.4	975.5	976.74	3.251
975.0	973.2	974.0	976.14	4.202
976.0	974.5	975.0	976.26	3.149
975.0	973.4	973.5	975.48	3.066
973.0	972.2	973.0	974.44	3.788
975.0	971.4	972.5	973.21	2.945
976.0	971.8	973.0	973.11	5.215
975.0	970.8	972.5	972.74	6.564
975.0	971.6	973.0	973.99	6.631
975.0	970.6	972.0	972.48	5.105
973.0	969.4	971.0	971.72	3.001
973.0	970.1	971.0	972.20	3.389
972.0	969.6	971.0	971.65	3.382
972.0	969.9	971.0	971.89	5.424
970.0	969.3	970.0	971.06	4.317
971.0	969.0	969.5	971.05	4.100
970.0	968.4	968.5	970.41	3.161
969.0	967.8	968.0	970.36	4.679
969.0	967.4	967.5	969.79	3.887
.9996	.9983	.9986		
.9986	.9976	.9986		
.9982	.9976	.9987		
.9988	.9970	.9978		
.9997	.9982	.9987		
.9995	.9979	.9980		
.9983	.9975	.9983		
1.0018	.9981	.9993		
1.0030	.9987	.9999		
1.0023	.9980	.9998		
1.0010	.9975	.9990		
1.0026	.9981	.9995		
1.0013	.9976	.9993		
1.0008	.9978	.9988		
1.0004	.9979	.9993		
1.0001	.9980	.9991		
.9989	.9982	.9989		
.9999	.9979	.9984		
.9996	.9979	.9980		
.9986	.9974	.9976		
.9992	.9975	.9976		
1.0001	.9978	.9987		
.0014	.0004	.0007		

TABLE 3- 8

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	14:22:00	959.3	949.0		958.8	963.1	960.8	964.6	962.0	966.0	965.6	962.4	964.0	962.0	961.8
2	14:22:30	941.7	948.0		957.4	963.1	960.3	964.6	961.0	966.0	965.2	960.4	964.0	962.0	961.5
3	14:23:00	959.3	944.0		957.9	962.3	960.2	964.6	961.0	966.0	964.5	960.8	963.0	962.0	961.4
4	14:23:30	961.2	952.0		957.9	963.1	960.0	964.6	962.0	966.0	964.5	961.4	963.0	962.0	961.4
5	14:24:00	960.3	951.0		957.9	963.1	959.8	964.6	963.0	962.0	964.0	961.3	962.0	963.0	961.2
6	14:24:30	959.3	950.0		957.1	960.8	959.3	963.6	962.0	962.0	963.7	960.5	962.0	962.0	960.1
7	14:25:00	952.4	939.0		956.2	961.6	958.8	963.6	960.0	962.0	963.1	960.9	962.0	961.0	960.3
8	14:25:30	953.4	943.0		955.4	959.3	957.3	962.6	958.0		962.6	959.0	961.0	960.0	959.2
9	14:26:00	954.4	943.0		955.4	957.8	957.6	961.6	958.0		961.8	959.5	960.0	959.5	958.5
10	14:26:30	952.4	936.0		954.5	957.8	956.4	960.5	957.0	966.0	961.2	957.0	960.0	958.0	957.7
11	14:27:00	952.4	938.0		952.8	956.3	956.1	960.5	956.0	953.0	960.4	956.8	959.0	957.0	956.4
12	14:27:30	951.5	943.0		952.0	957.0	954.7	958.5	955.0	962.0	959.1	955.4	958.0	957.0	955.7
13	14:28:00	953.4	944.0		952.0	955.5	954.2	958.5	955.0	962.0	958.4	955.8	957.0	956.5	955.4
14	14:28:30	956.3	947.0		952.0	955.5	954.9	959.5	957.0	958.0	958.0	956.0	957.0	956.0	955.3
15	14:29:00	949.5	939.0		952.8	955.5	954.9	960.5	956.0	966.0	958.0	955.8	957.0	956.0	955.6
16	14:29:30	952.4	925.0		952.8	956.3	954.9	959.5	953.0	962.0	958.6	956.5	958.0	955.5	955.8
17	14:30:00	955.4	943.0		952.8	955.5	955.4	959.5	955.0	966.0	959.8	957.0	959.0	956.0	956.1
18	14:30:30	951.5	946.0		952.8	954.8	955.1	959.5	957.0	962.0	960.3	956.2	958.0	957.0	955.6
19	14:31:00	953.4	939.0		952.8	954.8	954.6	960.5	956.0	958.0	959.9	956.9	958.0	956.0	955.5
20	14:31:30	950.5	934.0		952.0	955.5	954.4	959.5	955.0	958.0	959.5	956.9	957.0	955.9	955.0
21	14:32:00	951.5	938.0		952.0	955.5	954.5	958.5	955.0	958.0	959.0	956.6	958.0	955.0	954.8
1		9978	9871		9973	1.0017	.9994	1.0033	1.0006	1.0048	1.0043	1.0010	1.0027	1.0006	1.0004
2		9812	9878		9976	1.0035	1.0006	1.0051	1.0013	1.0065	1.0057	1.0007	1.0044	1.0024	1.0018
3		9989	9829		9974	1.0020	.9998	1.0044	1.0006	1.0059	1.0043	.9996	1.0027	1.0017	1.0006
4		9999	9903		9965	1.0019	.9986	1.0034	1.0007	1.0049	1.0033	1.0001	1.0018	1.0023	1.0001
5		9994	9899		9971	1.0025	.9991	1.0041	1.0024	1.0014	1.0034	1.0006	1.0014	1.0024	1.0005
6		9993	9896		9970	1.0008	.9993	1.0037	1.0021	1.0021	1.0038	1.0005	1.0021	1.0021	1.0001
7		9937	9797		9977	1.0033	1.0004	1.0054	1.0016	1.0037	1.0049	1.0026	1.0037	1.0027	1.0019
8		9956	9848		9977	1.0018	.9997	1.0052	1.0004		1.0052	1.0015	1.0036	1.0025	1.0017
9		9970	9851		9980	1.0005	1.0003	1.0045	1.0007		1.0047	1.0023	1.0028	1.0023	1.0013
10		9957	9786		9979	1.0014	.9999	1.0042	1.0006	1.0100	1.0049	1.0006	1.0037	1.0016	1.0013
11		9972	9821		9976	1.0013	1.0011	1.0057	1.0010	.9978	1.0056	1.0018	1.0041	1.0020	1.0014
12		9961	9872		9967	1.0019	.9995	1.0035	.9998	1.0071	1.0041	1.0002	1.0030	1.0019	1.0005
13		9983	9885		9969	1.0005	.9992	1.0037	1.0000	1.0073	1.0036	1.0008	1.0021	1.0016	1.0006
14		1.0012	9915		9967	1.0004	.9995	1.0045	1.0019	1.0030	1.0030	1.0009	1.0019	1.0009	1.0002
15		9943	9833		9978	1.0006	1.0000	1.0058	1.0011	1.0116	1.0032	1.0009	1.0022	1.0011	1.0007
16		9962	9695		9966	1.0003	1.0008	1.0057	.9989	1.0083	1.0047	1.0025	1.0041	1.0015	1.0018
17		9993	9863		9965	.9994	.9993	1.0036	.9988	1.0104	1.0039	1.0009	1.0030	.9999	1.0000
18		9956	9899		9970	.9991	.9994	1.0040	1.0014	1.0046	1.0043	1.0006	1.0024	1.0014	.9999
19		9985	9834		9978	.9999	.9997	1.0059	1.0012	1.0033	1.0053	1.0021	1.0033	1.0012	1.0007
20		9963	9790		9979	1.0015	1.0004	1.0057	1.0010	1.0041	1.0057	1.0030	1.0031	1.0010	1.0010
21		9971	9830		9977	1.0013	1.0003	1.0045	1.0008	1.0039	1.0050	1.0025	1.0039	1.0008	1.0006
MEAN		9967	9847		9974	1.0013	.9998	1.0046	1.0008	1.0054	1.0045	1.0012	1.0030	1.0016	1.0008
S. D.		.0040	.0052		.0006	.0011	.0004	.0009	.0009	.0034	.0008	.0009	.0009	.0007	.0006

20	23	24	MEAN	S. D.
963.0	959.3	961.0	961.42	3.941
962.0	958.6	960.0	959.74	6.366
962.0	958.3	960.0	960.38	4.921
961.0	959.2	960.0	961.30	3.273
959.0	958.8	960.0	960.69	3.228
960.0	958.7	959.0	960.01	3.221
959.0	957.1	958.0	958.44	5.911
959.0	956.7	957.5	957.60	4.731
959.0	956.4	957.0	957.30	4.458
958.0	955.0	956.0	956.47	6.284
957.0	954.2	955.5	955.09	5.150
956.0	953.0	955.0	955.18	6.207
955.0	953.1	954.0	955.00	3.813
953.0	953.2	954.0	955.16	2.958
955.0	953.2	954.0	954.92	5.554
957.0	954.6	955.5	956.10	4.626
956.0	953.9	955.3	955.67	3.736
955.0	953.4	954.0	954.86	4.796
955.0	953.4	954.0	954.04	5.870
954.0	953.3	954.0	954.23	4.865

1.0016	.9978	.9996
1.0024	.9980	1.0003
1.0017	.9978	.9996
.9997	.9978	.9986
.9982	.9980	.9993
1.0000	.9986	.9990
1.0006	.9984	.9995
1.0015	.9991	.9999
1.0018	.9991	.9997
1.0016	.9985	.9995
1.0020	.9991	1.0004
1.0009	.9977	.9998
1.0000	.9980	.9990
.9977	.9980	.9988
1.0001	.9982	.9990
1.0030	.9991	1.0009
1.0009	.9984	.9994
1.0003	.9981	.9993
1.0001	.9985	.9991
1.0010	.9993	1.0000
.9998	.9990	.9998
1.0007	.9985	.9995
.0013	.0005	.0006

TABLE 3-9

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 9: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	14:42:00	936.5	920.0		938.3	943.5	941.3	944.0	944.0	944.0	944.9	942.9	945.0	942.0	942.2			
2	14:42:30	936.5	921.0		937.4	942.0	940.7	944.0	942.0	942.0	943.8	942.5	944.0	941.0	941.6			
3	14:43:00	940.5	926.0		937.4	942.0	939.8	944.0	942.0	942.0	942.9	942.0	944.0	941.0	941.8			
4	14:43:30	939.5	926.0		938.3	942.0	940.0	945.0	941.0	941.0	943.2	942.1	944.0	941.0	941.5			
5	14:44:00	939.5	926.0		936.6	941.3	938.9	943.0	941.0	941.0	942.4	939.9	943.0	940.0	940.4			
6	14:44:30	942.4	925.0		936.7	940.5	938.2	943.0	940.0	940.0	941.9	940.8	943.0	940.0	940.0			
7	14:45:00	937.5	920.0		935.7	940.5	938.4	942.0	940.0	940.0	941.1	939.9	942.0	939.0	939.7			
8	14:45:30	938.5	924.0		934.9	940.5	937.6	942.0	937.0	937.0	940.5	940.1	942.0	938.0	939.2			
9	14:46:00	937.5	920.0		934.0	937.5	936.5	941.0	938.0	938.0	939.6	939.0	941.0	937.0	937.9			
10	14:46:30	937.5	920.0		934.0	937.5	936.5	941.0	938.0	938.0	939.6	939.0	941.0	937.0	937.9			
11	14:47:00	938.5	925.0		932.3	935.2	934.5	939.0	938.0	938.0	937.9	936.9	940.0	936.0	936.3			
12	14:47:30	939.5	926.0		932.3	936.0	934.8	939.0	936.0	936.0	937.3	936.3	939.0	936.0	936.1			
13	14:48:00	936.5	918.0		933.2	935.2	934.9	939.0	937.0	937.0	937.2	935.9	939.0	936.0	936.5			
14	14:48:30	935.5	921.0		932.3	934.5	934.2	939.0	937.0	937.0	938.8	938.5	939.0	936.0	935.8			
15	14:49:00	936.5	926.0		931.5	933.7	932.9	937.9	937.0	937.0	935.5	934.8	938.0	933.0	934.2			
16	14:49:30	937.5	926.0		930.6	932.2	932.1	937.9	935.0	935.0	935.1	935.9	937.0	933.0	934.0			
17	14:50:00	932.6	925.0		930.6	932.2	932.4	936.9	935.0	935.0	934.8	933.6	937.0	934.0	933.6			
18	14:50:30	937.5	924.0		929.8	933.0	931.4	935.9	935.0	935.0	934.6	937.9	936.0	934.0	933.3			
19	14:51:00	936.5	919.0		929.8	933.0	931.5	935.9	933.0	933.0	934.5	933.6	936.0	933.0	932.9			
20	14:51:30	931.6	916.0		929.8	933.0	931.5	935.9	933.0	933.0	933.4	933.3	935.0	933.0	932.4			
21	14:52:00	936.5	924.0		929.8	932.2	931.6	935.9	934.0	934.0	933.4	933.3	935.0	932.0	932.4			
1		.9955	.9779		.9974	1.0029	1.0006	1.0034	1.0034	1.0034	1.0044	1.0023	1.0045	1.0013	1.0015			
2		.9981	.9795		.9970	1.0019	1.0005	1.0040	1.0019	1.0019	1.0038	1.0024	1.0040	1.0008	1.0018			
3		.9997	.9843		.9964	1.0022	.9992	1.0024	1.0003	1.0003	1.0025	1.0015	1.0035	.9992	1.0009			
4		.9990	.9847		.9968	1.0017	.9994	1.0038	1.0017	1.0017	1.0027	1.0017	1.0038	1.0006	1.0015			
5		.9990	.9846		.9977	1.0016	.9995	1.0048	1.0016	1.0016	1.0029	1.0017	1.0038	1.0004	1.0011			
6		1.0029	.9844		.9968	1.0018	.9992	1.0036	1.0014	1.0014	1.0029	1.0003	1.0036	1.0004	1.0008			
7		.9986	.9800		.9967	1.0018	.9994	1.0045	1.0013	1.0013	1.0033	1.0022	1.0045	1.0013	1.0012			
8		.9999	.9844		.9969	1.0020	.9998	1.0036	1.0015	1.0015	1.0026	1.0014	1.0036	1.0004	1.0012			
9		.9994	.9786		.9966	1.0109	.9995	1.0042	.9988	.9988	1.0026	1.0021	1.0042	.9999	1.0012			
10		1.0007	.9820		.9970	1.0007	.9996	1.0044	1.0012	1.0012	1.0029	1.0023	1.0044	1.0002	1.0011			
11		1.0017	.9873		.9969	1.0006	.9994	1.0033	1.0012	1.0012	1.0025	1.0009	1.0044	.9996	1.0011			
12		1.0038	.9893		.9961	.9992	.9984	1.0032	1.0022	1.0022	1.0021	1.0010	1.0043	1.0000	1.0003			
13		1.0016	.9816		.9971	1.0011	.9998	1.0043	1.0011	1.0011	1.0024	1.0014	1.0043	1.0011	1.0012			
14		1.0003	.9848		.9978	1.0000	.9997	1.0040	1.0019	1.0019	1.0027	1.0010	1.0043	1.0008	1.0014			
15		1.0010	.9898		.9965	.9999	.9986	1.0037	1.0016	1.0016	1.0013	1.0010	1.0037	1.0005	1.0003			
16		1.0036	.9913		.9972	.9995	.9987	1.0040	1.0031	1.0031	1.0014	1.0007	1.0041	.9988	1.0001			
17		.9992	.9911		.9971	.9988	.9987	1.0049	1.0018	1.0018	1.0019	1.0027	1.0039	.9996	1.0007			
18		1.0045	.9900		.9971	.9988	.9986	1.0038	1.0018	1.0018	1.0016	1.0003	1.0040	1.0007	1.0003			
19		1.0039	.9851		.9967	1.0001	.9984	1.0032	1.0022	1.0022	.9980	1.0054	1.0033	1.0007	1.0004			
20		.9997	.9830		.9978	1.0012	.9956	1.0043	1.0012	1.0012	1.0028	1.0019	1.0044	1.0012	1.0011			
21		1.0044	.9910		.9973	.9998	.9922	1.0035	1.0018	1.0018	1.0011	1.0010	1.0028	.9996	1.0001			
					.9970	1.0012	.9993	1.0039	1.0015	1.0015	1.0019	1.0025	1.0017	1.0040	1.0009			
MEAN		1.0008	.9850		.0004	.0025	.0006	.0006	.0009	.0033	.0008	.0711	.0004	.0007	.0005			
S.D.		.0024	.0042															

20	23	24	MEAN	S.D.
945.0	941.0	941.0	940.77	6.241
944.0	940.0	941.0	940.25	5.681
944.0	939.4	940.0	940.75	4.548
944.0	939.7	940.0	940.41	4.418
944.0	939.4	940.0	940.47	4.441
943.0	938.7	939.0	939.64	4.471
943.0	937.9	939.0	938.78	5.423
943.0	937.4	938.0	938.61	4.478
942.0	936.7	937.5	938.09	6.431
941.0	935.8	937.0	936.85	5.074
940.0	935.8	936.0	936.90	3.648
939.0	934.1	935.0	935.98	3.545
939.0	933.9	935.0	935.01	5.064
939.0	934.0	935.0	935.23	4.315
938.0	934.0	934.0	935.54	3.235
935.0	932.2	933.0	934.15	3.081
935.0	931.7	933.0	933.34	3.084
935.0	931.1	932.0	933.31	5.331
936.0	931.1	932.0	932.91	4.379
935.0	930.8	931.5	931.87	4.747
934.0	930.2	931.0	932.35	3.020
1.0045	1.0002	1.0002		
1.0040	.9997	1.0008		
1.0035	.9986	.9992		
1.0038	.9992	.9996		
1.0038	.9989	.9995		
1.0036	.9990	.9993		
1.0045	.9991	1.0002		
1.0047	.9987	.9993		
1.0042	.9985	.9994		
1.0044	.9989	1.0002		
1.0033	.9988	.9990		
1.0032	.9980	.9990		
1.0043	.9988	1.0000		
1.0040	.9987	.9998		
1.0026	.9984	.9984		
1.0009	.9979	.9988		
1.0018	.9982	.9996		
1.0018	.9976	.9986		
1.0033	.9981	.9990		
1.0034	.9983	.9996		
1.0016	.9977	.9985		
1.0034	.9987	.9994		
.0011	.0006	.0006		

TABLE 3-10

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	15:15:00	898.4	893.0		897.7	902.0	899.3	903.0	903.0	903.0	903.1	901.9	903.0	901.0	900.8			
2	15:15:30	893.5	890.0		897.7	902.0	899.0	903.0	903.0	903.0	902.8	901.9	903.0	901.0	900.6			
3	15:16:00	891.5	889.0		896.0	902.0	897.9	902.0	902.0	905.0	901.9	900.6	902.0	901.0	899.6			
4	15:16:30	892.5	885.0		895.2	900.5	896.4	900.9	901.0		900.6	900.1	901.0	900.0	898.5			
5	15:17:00	887.6	885.0		894.3	899.7	895.7	899.9	899.0		899.5	898.8	899.0	899.0	897.8			
6	15:17:30	887.6	884.0		894.3	897.5	895.9	898.9	897.0		899.1	898.8	899.0	899.0	897.7			
7	15:18:00	892.5	876.0		893.5	897.5	895.1	898.9	896.0	903.0	898.5	897.7	898.0	897.5	897.0			
8	15:18:30	889.6	889.0		893.5	897.5	895.2	899.9	897.0		898.7	899.0	899.0	897.0	896.9			
9	15:19:00	889.6	881.0		893.5	896.0	894.3	898.9	896.0		898.4	897.3	898.0	897.0	896.5			
10	15:19:30	889.6	874.0		892.6	896.0	893.6	897.9	896.0		897.1	897.9	898.0	896.0	895.6			
11	15:20:00	889.6	874.0		890.9	896.0	892.9	896.9	895.0	891.0	896.0	895.2	897.0	895.0	894.2			
12	15:20:30	887.6	872.0		889.2	893.7	890.7	894.9	892.0		894.2	893.6	895.0	893.0	892.5			
13	15:21:00	885.6	875.0		888.4	891.4	889.3	893.8	891.0		892.2	891.0	893.0	892.0	890.8			
14	15:21:30	884.7	875.0		886.7	890.7	888.1	891.8	891.0	891.0	890.9	891.7	892.0	890.5	889.9			
15	15:22:00	883.7	874.0		885.8	888.4	886.0	890.8	890.0	891.0	889.5	889.7	890.0	890.0	888.0			
16	15:22:30	883.7	873.0		884.1	888.4	885.2	889.8	889.0		888.1	887.8	889.0	888.0	887.0			
17	15:23:00	883.7	877.0		883.3	886.2	883.9	888.8	888.0		886.9	887.6	887.0	887.0	885.8			
18	15:23:30	881.7	869.0		882.4	886.2	883.5	887.8	887.0		886.2	886.9	887.0	886.0	885.4			
19	15:24:00	880.7	863.0		881.6	886.2	882.8	887.8	885.0	891.0	886.0	885.7	887.0	885.0	885.0			
20	15:24:30	882.7	872.0		880.8	884.6	882.4	886.8	886.0		885.3	885.2	886.0	885.0	884.2			
21	15:25:00	880.7	872.0		881.6	886.2	882.5	886.8	885.0		885.3	885.2	886.0	885.0	884.4			
1		.9978	.9918		.9970	1.0018	.9988	1.0029	1.0029		1.0030	1.0017	1.0029	1.0007	1.0004			
2		.9931	.9892		.9977	1.0025	.9992	1.0036	1.0036		1.0034	1.0024	1.0036	1.0016	1.0010			
3		.9915	.9887		.9965	1.0032	.9986	1.0032	1.0032	1.0065	1.0031	1.0016	1.0032	1.0010	1.0005			
4		.9944	.9860		.9974	1.0033	.9987	1.0037	1.0038		1.0034	1.0028	1.0038	1.0027	1.0010			
5		.9903	.9874		.9978	1.0038	.9994	1.0040	1.0030		1.0036	1.0028	1.0030	1.0030	1.0017			
6		.9908	.9867		.9982	1.0018	1.0000	1.0045	1.0013		1.0036	1.0033	1.0035	1.0035	1.0020			
7		.9966	.9782		.9977	1.0022	.9995	1.0038	1.0005	1.0083	1.0033	1.0024	1.0027	1.0022	1.0016			
8		.9934	.9827		.9978	1.0023	.9997	1.0049	1.0017		1.0036	1.0039	1.0039	1.0017	1.0016			
9		.9941	.9845		.9985	1.0013	.9994	1.0045	1.0013		1.0040	1.0027	1.0035	1.0024	1.0018			
10		.9951	.9777		.9985	1.0023	.9996	1.0044	1.0023		1.0035	1.0044	1.0045	1.0023	1.0018			
11		.9964	.9789		.9979	1.0036	1.0001	1.0046	1.0025	.9980	1.0036	1.0027	1.0047	1.0025	1.0016			
12		.9963	.9788		.9981	1.0031	.9997	1.0045	1.0012		1.0037	1.0030	1.0046	1.0023	1.0018			
13		.9955	.9836		.9986	1.0020	.9996	1.0047	1.0015		1.0029	1.0027	1.0038	1.0027	1.0013			
14		.9955	.9846		.9978	1.0023	.9994	1.0035	1.0026		1.0025	1.0034	1.0038	1.0021	1.0014			
15		.9958	.9849		.9982	1.0011	.9984	1.0038	1.0029	1.0040	1.0023	1.0025	1.0029	1.0029	1.0006			
16		.9973	.9852		.9978	1.0026	.9990	1.0042	1.0033		1.0023	1.0019	1.0033	1.0022	1.0010			
17		.9981	.9905		.9977	1.0009	.9983	1.0039	1.0030		1.0017	1.0025	1.0018	1.0018	1.0005			
18		.9972	.9829		.9980	1.0023	.9993	1.0041	1.0032		1.0023	1.0021	1.0032	1.0021	1.0014			
19		.9966	.9766		.9977	1.0029	.9990	1.0047	1.0015	1.0083	1.0026	1.0023	1.0038	1.0015	1.0015			
20		.9993	.9871		.9971	1.0014	.9989	1.0039	1.0030		1.0022	1.0021	1.0030	1.0019	1.0010			
21		.9969	.9871		.9979	1.0031	.9990	1.0036	1.0018		1.0021	1.0020	1.0029	1.0018	1.0011			
	MEAN	.9953	.9844		.9978	1.0024	.9992	1.0041	1.0024	1.0050	1.0030	1.0027	1.0035	1.0021	1.0013			
	S.D.	.0024	.0043		.0005	.0008	.0005	.0005	.0009	.0043	.0016	.0007	.0007	.0007	.0005			

20	23	24	MEAN	S. D.
902.0	897.8	900.0	900.40	2.798
902.0	897.5	899.0	899.73	3.604
901.0	897.3	898.5	899.14	4.144
899.0	895.7	897.0	897.56	4.327
897.0	894.8	897.0	896.27	4.441
898.0	894.4	896.0	895.88	4.477
898.0	893.4	896.0	895.54	5.789
899.0	893.8	896.0	895.47	5.065
897.0	893.4	896.0	894.86	4.508
897.0	892.4	895.5	893.95	6.011
896.0	891.6	893.5	892.80	5.508
894.0	889.5	892.0	890.93	5.675
892.0	887.9	890.0	889.63	4.580
891.0	886.9	889.0	888.66	4.350
889.0	885.6	887.5	887.44	4.159
888.0	884.3	886.0	886.09	4.107
887.0	883.4	885.0	885.37	2.905
886.0	882.7	884.5	884.15	4.592
884.0	881.9	884.0	883.67	6.071
885.0	881.4	883.0	883.36	3.600
885.0	881.6	884.0	883.42	3.651
1.0018	.9971	.9996		
1.0025	.9975	.9992		
1.0021	.9979	.9993		
1.0016	.9979	.9994		
1.0008	.9984	1.0008		
1.0024	.9983	1.0001		
1.0027	.9976	1.0005		
1.0019	.9981	1.0004		
1.0024	.9984	1.0013		
1.0034	.9983	1.0017		
1.0036	.9987	1.0008		
1.0034	.9984	1.0012		
1.0027	.9981	1.0004		
1.0026	.9980	1.0004		
1.0018	.9979	1.0001		
1.0022	.9980	.9999		
1.0018	.9978	.9996		
1.0021	.9984	1.0004		
1.0026	.9980	1.0004		
1.0019	.9978	.9996		
1.0018	.9979	1.0007		
1.0024	.9980	1.0003		
.0008	.0004	.0007		

TABLE 3-11

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		
		1	3	5	7	8	9	10	11	12	13	14	17	18	19					
1	15:35:00	870.8	862.0		865.6	868.8	867.5	871.6	870.0	878.0	870.7	868.8	870.0	868.0	868.5					
2	15:35:30	870.8	862.0		865.6	868.1	867.4	871.6	872.0	882.0	870.0	869.8	869.0	869.0	868.0					
3	15:36:00	870.8	860.0		864.8	867.3	866.3	870.6	869.0	873.0	869.5	868.4	869.0	867.0	867.6					
4	15:36:30	870.8	860.0		863.9	867.3	865.9	869.6	868.0	876.0	868.9	867.7	868.0	866.0	866.0					
5	15:37:00	866.9	858.0		863.1	867.3	864.9	869.6	868.0	869.0	868.2	867.0	868.0	865.0	865.9					
6	15:37:30	866.9	858.0		862.2	865.8	864.1	868.6	867.0	873.0	868.6	866.6	867.0	864.0	864.8					
7	15:38:00	862.9	854.0		861.4	865.1	863.7	867.6	866.0	869.0	867.0	866.1	867.0	863.0	864.3					
8	15:38:30	866.9	855.0		858.8	862.1	860.6	864.5	863.0	864.0	865.0	863.1	865.0	862.0	862.2					
9	15:39:00	865.9	853.0		858.8	861.3	859.9	864.5	862.0	864.0	864.2	861.9	864.0	861.0	861.1					
10	15:39:30	863.9	854.0		858.0	862.1	859.9	863.5	862.0	864.0	863.3	861.6	863.0	860.5	860.5					
11	15:40:00	861.0	848.0		856.3	869.0	858.3	862.5	861.0	864.0	862.2	860.2	862.0	859.5	859.2					
12	15:40:30	861.0	850.0		855.5	859.0	857.0	861.5	861.0	869.0	860.9	859.7	860.0	858.0	857.8					
13	15:41:00	860.0	851.0		854.6	858.3	856.0	860.5	860.0	855.0	859.8	858.5	859.0	857.0	857.1					
14	15:41:30	858.0	848.0		853.8	858.3	855.3	860.5	859.0	855.0	859.0	856.6	858.0	857.0	856.2					
15	15:42:00	855.1	844.0		853.8	857.5	855.3	859.4	857.0	864.0	859.0	856.4	858.0	855.5	856.6					
16	15:42:30	855.1	844.0		853.8	856.0	854.9	859.4	856.0	851.0	858.5	856.7	858.0	855.0	855.8					
17	15:43:00	857.0	842.0		852.9	856.8	854.9	858.4	856.0	860.0	858.2	856.9	858.0	855.0	855.3					
18	15:43:30	855.1	843.0		852.1	854.5	853.4	857.4	855.0	860.0	857.4	855.6	857.0	854.0	854.4					
19	15:44:00	856.1	842.0		850.4	854.5	851.9	858.4	854.0	860.0	855.7	854.3	855.0	853.0	853.1					
20	15:44:30	855.1	843.0		849.5	852.3	851.2	858.4	853.0	851.0	855.0	851.9	854.0	853.0	852.2					
21	15:45:00	854.1	842.0		849.5	851.5	850.1	858.4	852.0	846.0	854.4	852.1	854.0	851.5	851.3					
1		1.0021	.9919		.9961	.9998	.9983	1.0030	1.0012	1.0104	1.0020	.9998	1.0012	.9988	.9994					
2		1.0018	.9916		.9958	.9987	.9979	1.0027	1.0031	1.0147	1.0008	1.0006	.9997	.9997	.9985					
3		1.0035	.9911		.9966	.9995	.9983	1.0033	1.0014	1.0061	1.0020	1.0007	1.0014	.9991	.9998					
4		.9973	.9928		.9973	1.0013	.9996	1.0039	1.0021	.9974	1.0031	1.0029	1.0021	.9998	1.0007					
5		1.0011	.9908		.9967	1.0015	.9988	1.0042	1.0023	1.0035	1.0026	1.0012	1.0023	.9989	.9999					
6		.9995	.9915		.9964	1.0005	.9986	1.0038	1.0019	1.0088	1.0038	.9996	1.0019	.9984	.9994					
7		.9984	.9981		.9967	1.0009	.9993	1.0038	1.0020	1.0054	1.0031	1.0021	1.0031	.9985	1.0008					
8		1.0053	.9915		.9959	.9997	.9980	1.0025	1.0008	1.0019	1.0031	1.0009	1.0031	.9996	.9999					
9		1.0051	.9901		.9968	.9997	.9981	1.0035	1.0006	1.0029	1.0031	1.0004	1.0029	.9994	.9995					
10		1.0033	.9918		.9965	1.0012	.9987	1.0028	1.0011	1.0034	1.0026	1.0006	1.0023	.9994	.9994					
11		1.0012	.9861		.9957	1.0105	.9981	1.0029	1.0012	1.0047	1.0026	1.0003	1.0024	.9994	.9991					
12		1.0025	.9897		.9961	1.0001	.9978	1.0030	1.0025	1.0118	1.0024	1.0010	1.0013	.9990	.9987					
13		1.0032	.9927		.9969	1.0013	.9986	1.0038	1.0032	.9974	1.0030	1.0015	1.0021	.9997	.9999					
14		1.0019	.9903		.9970	1.0023	.9988	1.0049	1.0031	.9984	1.0031	1.0003	1.0021	1.0008	.9990					
15		.9988	.9858		.9972	1.0016	.9990	1.0038	1.0010	1.0092	1.0033	1.0003	1.0022	.9992	1.0005					
16		1.0001	.9871		.9986	1.0012	.9999	1.0032	1.0012	.9953	1.0041	1.0020	1.0035	1.0000	1.0010					
17		1.0019	.9843		.9971	1.0017	.9994	1.0035	1.0007	1.0045	1.0033	1.0018	1.0031	.9995	.9999					
18		1.0008	.9866		.9973	1.0001	.9988	1.0035	1.0007	1.0065	1.0035	1.0014	1.0030	.9995	1.0000					
19		1.0031	.9866		.9964	1.0013	.9982	1.0058	1.0007	1.0077	1.0027	1.0010	1.0018	.9996	.9996					
20		1.0030	.9888		.9965	.9998	.9985	1.0069	1.0006	.9982	1.0029	1.0063	1.0017	1.0006	.9996					
21		1.0034	.9891		.9980	1.0003	.9987	1.0024	1.0009	.9938	1.0037	1.0010	1.0032	1.0003	1.0001					
MEAN		1.0018	.9895		.9967	1.0011	.9986	1.0041	1.0015	1.0040	1.0029	1.0012	1.0022	.9995	.9997					
S.D.		.0021	.0025		.0007	.0023	.0006	.0015	.0009	.0056	.0007	.0014	.0009	.0006	.0006					



20	23	24	MEAN	S.D.
069.0	066.7	068.0	069.00	3.330
069.0	065.9	068.0	069.24	4.196
068.0	065.2	067.5	067.75	2.943
068.0	064.4	066.0	066.21	2.499
066.0	063.7	065.0	065.97	2.819
065.0	062.6	065.0	065.35	3.277
066.0	061.6	064.0	064.29	3.494
064.0	059.5	061.5	062.32	2.881
063.0	058.7	061.0	061.52	3.071
062.0	058.6	060.0	061.06	2.620
060.0	057.4	059.0	059.97	4.346
059.0	055.7	057.0	058.88	3.947
058.0	054.7	056.0	057.22	2.573
057.0	053.8	056.0	056.34	2.912
057.0	053.9	056.0	056.16	4.064
057.0	053.1	055.5	054.99	3.582
057.0	052.8	055.0	055.39	4.063
056.0	051.7	054.0	054.41	3.695
056.0	050.5	052.0	053.43	3.985
053.0	049.6	052.0	052.51	3.577
053.0	048.9	051.0	051.24	3.691
1.0000	.9974	.9988		
.9997	.9961	.9985		
1.0003	.9971	.9997		
1.0021	.9979	.9996		
1.0000	.9974	.9989		
.9996	.9968	.9994		
1.0020	.9969	.9997		
1.0019	.9967	.9990		
1.0017	.9967	.9994		
1.0011	.9971	.9980		
1.0000	.9970	.9989		
1.0001	.9963	.9978		
1.0009	.9971	.9986		
1.0000	.9970	.9996		
1.0010	.9974	.9990		
1.0024	.9978	1.0006		
1.0019	.9970	.9995		
1.0019	.9968	.9995		
1.0007	.9966	.9983		
1.0006	.9964	.9994		
1.0021	.9973	.9997		
1.0010	.9970	.9992		
.0009	.0004	.0006		

TABLE 3-12

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	15:56:00	816.4			813.1	817.5	815.2		820.0		818.2	816.7	817.0	816.0	816.2
2	15:56:30	814.5			810.6	814.5	812.6	815.1			816.4	815.2	816.0	814.0	814.7
3	15:57:00	810.5			809.7	813.0	811.6		816.0		814.7	813.7	814.0	812.5	813.3
4	15:57:30	806.6			808.0	812.2	810.2		814.0		813.1	811.5	812.0	810.5	811.7
5	15:58:00	803.7			804.3	810.0	808.1	812.1	811.0		811.8	810.9	811.0	808.5	809.0
6	15:58:30	802.7			805.5	808.5	806.4	811.1	808.0	817.0	810.6	807.7	810.0	807.0	808.6
7	15:59:00	802.7	795.0		804.6	807.7	806.2	810.0	807.0	812.0	809.2	807.5	809.0	805.0	807.6
8	15:59:30	803.7	797.0		802.1	804.7	803.8	807.0	806.0	808.0	807.5	809.7	808.0	804.0	805.4
9	16:00:00	802.7	799.0		801.2	804.7	802.8	806.0	806.0	808.0	806.1	803.7	806.0	804.0	803.9
10	16:00:30	802.7	798.0		800.4	804.7	802.2	806.0	806.0	812.0	805.0	802.9	805.0	802.5	803.0
11	16:01:00	799.8	795.0		798.7	802.4	800.8	804.0	806.0	812.0	803.5	802.0	804.0	801.0	801.5
12	16:01:30	798.8	797.0		798.7	800.9	799.8	805.0	803.0	812.0	802.5	801.9	802.0	801.0	801.3
13	16:02:00	797.8	791.0		797.8	800.9	799.1	802.9	802.0	798.0	801.8	800.7	802.0	799.0	800.2
14	16:02:30	795.8	792.0		797.0	800.2	797.9	801.9	801.0	758.0	800.8	799.5	801.0	799.0	798.9
15	16:03:00	793.9	793.0		796.2	799.4	797.7	801.4	801.0	803.0	800.7	799.4	801.0	799.0	798.8
16	16:03:30	794.9	783.0		794.5	797.2	795.8	799.4	798.0	808.0	799.1	797.5	799.0	796.0	797.0
17	16:04:00	791.9	786.0		792.8	794.9	793.9	797.9	797.0	808.0	797.1	795.9	797.0	794.5	795.3
18	16:04:30	794.9	777.0		791.1	794.2	792.5	795.5	794.0	798.0	796.0	794.2	796.0	793.0	793.8
19	16:05:00	792.9	777.0		790.2	791.9	791.4	794.8	792.0	803.0	794.4	791.2	795.0	791.0	792.3
20	16:05:30	793.9	778.0		787.7	791.9	789.5	793.8	791.0	803.0	792.8	791.3	793.0	790.0	790.6
21	16:06:00	790.0	768.0		786.0	788.9	787.8	791.8	789.0	807.0	790.9	789.5	792.0	788.0	789.0
1		1.0001			.9961	1.0015	.9987		1.0045		1.0023	1.0005	1.0009	.9996	.9999
2		1.0002			.9954	1.0002	.9979	1.0009	1.0045		1.0025	1.0011	1.0020	.9996	1.0004
3		.9973			.9963	1.0004	.9987		1.0041		1.0025	1.0012	1.0016	.9998	1.0008
4		.9948			.9965	1.0010	.9992		1.0039		1.0028	1.0008	1.0015	.9996	1.0011
5		.9932			.9944	1.0010	.9986	1.0036	1.0022		1.0032	1.0021	1.0022	.9991	1.0007
6		.9930			.9965	1.0002	.9976	1.0034	.9996	1.0107	1.0028	.9992	1.0021	.9984	1.0003
7		.9953			.9977	1.0015	.9997	1.0044	1.0006	1.0068	1.0034	1.0013	1.0031	.9982	1.0014
8		.9982			.9962	.9995	.9983	1.0023	1.0011	1.0036	1.0029	1.0057	1.0036	.9986	1.0003
9		.9984			.9965	1.0009	.9985	1.0025	1.0025	1.0050	1.0026	.9996	1.0025	1.0000	.9999
10		.9989			.9960	1.0014	.9983	1.0038	1.0030	1.0105	1.0018	.9992	1.0018	.9987	.9993
11		.9971			.9957	1.0003	.9983	1.0023	1.0042	1.0123	1.0017	.9998	1.0023	.9986	.9992
12		.9945			.9964	.9991	.9977	1.0042	1.0017	1.0130	1.0011	1.0004	1.0005	.9992	.9996
13		.9979			.9979	1.0018	.9995	1.0043	1.0032	.9982	1.0029	1.0015	1.0032	.9994	1.0009
14		.9964			.9979	1.0019	.9991	1.0041	1.0029	.9992	1.0027	1.0011	1.0029	1.0004	1.0003
15		.9940			.9969	1.0009	.9988	1.0034	1.0029	1.0054	1.0025	1.0009	1.0029	1.0004	1.0002
16		.9977			.9972	1.0005	.9988	1.0033	1.0016	1.0141	1.0029	1.0009	1.0020	.9990	1.0003
17		.9955			.9967	.9993	.9981	1.0031	1.0019	1.0158	1.0021	1.0006	1.0019	.9988	.9998
18		1.0022			.9974	1.0013	.9991	1.0034	1.0010	1.0061	1.0036	1.0013	1.0036	.9998	1.0008
19		1.0010			.9976	.9997	.9991	1.0034	.9998	1.0137	1.0029	.9988	1.0036	.9986	1.0002
20		1.0046			.9967	1.0020	.9990	1.0045	1.0009	1.0137	1.0029	1.0013	1.0036	.9996	1.0004
21		1.0012			.9962	.9998	.9985	1.0035	1.0000	1.0220	1.0024	1.0006	1.0036	.9987	1.0000
MEAN		.9978	.9974		.9967	1.0007	.9986	1.0033	1.0022	1.0091	1.0026	1.0008	1.0025	.9992	1.0003
S.D.		.0030	.0041		.0007	.0009	.0006	.0009	.0016	.0066	.0006	.0014	.0009	.0007	.0006

	20	23	24	MEAN	S.D.
	816.0	813.6	816.0	816.30	1.789
	814.0	811.6	813.5	814.34	1.909
	813.0	810.9	812.0	812.68	1.754
	811.0	809.3	810.5	810.82	2.011
	810.0	807.4	808.5	809.22	2.325
	809.0	805.6	807.0	806.33	3.221
	809.0	804.7	806.5	806.48	3.848
	807.0	803.3	805.0	805.14	2.997
	805.0	802.1	803.0	804.01	2.230
	804.0	800.9	802.0	803.58	3.095
	803.0	799.4	801.0	802.13	3.673
	802.0	799.0	801.0	801.62	3.382
	801.0	797.7	799.5	799.46	2.821
	800.0	796.9	798.5	798.65	2.456
	800.0	796.3	798.0	798.67	2.734
	798.0	794.8	796.0	796.76	4.841
	797.0	793.0	795.0	795.45	4.415
	796.0	791.3	793.0	793.18	4.696
	795.0	790.1	792.0	792.14	5.080
	792.0	788.7	790.0	790.28	3.847
	791.0	786.9	788.5	789.02	7.334
	.9996	.9967	.9996		
	.9996	.9966	.9990		
	1.0004	.9978	.9992		
	1.0002	.9961	.9996		
	1.0010	.9977	.9991		
	1.0008	.9969	.9984		
	1.0031	.9978	1.0000		
	1.0023	.9977	.9998		
	1.0012	.9976	.9987		
	1.0005	.9967	.9980		
	1.0011	.9966	.9986		
	1.0005	.9967	.9992		
	1.0019	.9978	1.0000		
	1.0017	.9978	.9998		
	1.0017	.9978	.9992		
	1.0016	.9975	.9990		
	1.0019	.9969	.9994		
	1.0036	.9976	.9998		
	1.0036	.9974	.9998		
	1.0022	.9980	.9996		
	1.0025	.9973	.9993		
	1.0015	.9974	.9993		
	.0012	.0005	.0005		

TABLE 3-13

THIRD INTERCOMPARISON - NOVEMBER 5, 1979  
RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	16:17:00	749.8	741.0		749.6	750.7	750.5	752.8	754.0		754.0	752.4	754.0	750.5	751.6			
2	16:17:30	749.8	741.0		747.0	748.5	747.8	751.8	752.0		751.2	751.7	751.0	749.0	749.1			
3	16:18:00	745.9	739.0		745.3	747.0	746.1	748.8	750.0	756.0		747.7	750.0	747.3	747.3			
4	16:18:30	746.9	738.0		742.8	744.7	743.5	746.8	747.0		746.9	746.3	747.0	744.5	744.8			
5	16:19:00	744.9	738.0		740.3	741.7	741.2	744.7	746.0		744.8	744.1	745.0	743.0	742.7			
6	16:19:30	739.0	730.0		738.6	741.0	739.2	742.7	742.0		742.6	741.7	743.0	739.0	740.6			
7	16:20:00	737.1	729.0		736.0	738.0	737.1	739.7	740.0	747.0		739.0	740.0	737.0	737.6			
8	16:20:30	736.1	727.0		733.5	735.0	734.1	736.6	737.0		737.4	736.7	738.0	735.0	735.3			
9	16:21:00	735.1	726.0		731.8	733.5	732.4	735.6	736.0		735.3	735.3	736.0	733.0	733.7			
10	16:21:30	732.2	724.0		729.2	731.2	729.9	733.6	733.0		733.0	733.3	734.0	731.0	731.5			
11	16:22:00	730.2	719.0		726.7	728.2	727.1	730.5	730.0	730.0		729.2	731.0	728.0	729.0			
12	16:22:30	728.2	720.0		723.3	724.4	724.4	726.5	728.0		727.4	726.6	728.0	725.5	725.7			
13	16:23:00	724.3	716.0		719.9	721.4	720.7	723.4	725.0		723.7	722.3	724.0	722.0	722.5			
14	16:23:30	722.3	714.0		718.2	719.2	719.1	722.4	723.0		721.3	721.2	722.0	720.0	720.3			
15	16:24:00	721.4	713.0		716.5	718.4	717.3	720.4	722.0	728.0		719.5	720.0	718.0	718.3			
16	16:24:30	720.4	712.0		714.8	716.9	715.4	719.4	720.0		719.1	718.0	718.0	716.5	717.0			
17	16:25:00	718.4	709.0		712.3	713.9	713.3	716.4	718.0		716.0	716.6	716.0	714.0	715.0			
18	16:25:30	716.4	709.0		709.8	712.4	710.4	714.3	715.0		713.7	714.2	713.0	712.0	712.7			
19	16:26:00	713.5	703.0		707.2	708.7	707.6	711.3	712.0	706.0		709.5	710.0	708.0	709.3			
20	16:26:30	709.6	700.0		702.1	706.4	704.6	709.2	709.0		708.3	705.5	708.0	705.0	706.4			
21	16:27:00	705.6	697.0		700.4	702.7	701.4	704.2	705.0		704.5	703.8	704.0	701.0	702.8			
1		.9985	.9867		.9982	.9997	.9994	1.0025	1.0040		1.0040	1.0019	1.0040	.9994	1.0009			
2		1.0012	.9895		.9975	.9995	.9985	1.0039	1.0042		1.0031	1.0011	1.0028	1.0002	1.0003			
3		.9979	.9887		.9971	.9994	.9982	1.0018	1.0034	1.0114		1.0029	1.0034	.9994	.9998			
4		1.0028	.9908		.9973	.9998	.9982	1.0026	1.0029		1.0028	1.0020	1.0029	.9995	.9999			
5		1.0028	.9935		.9966	.9985	.9978	1.0026	1.0042		1.0027	1.0018	1.0030	1.0003	.9999			
6		.9988	.9866		.9982	1.0015	.9990	1.0038	1.0028		1.0036	1.0024	1.0042	.9988	1.0009			
7		.9985	.9876		.9970	.9997	.9985	1.0020	1.0025	1.0119		1.0027	1.0011	.9984	.9992			
8		1.0014	.9890		.9978	.9999	.9986	1.0020	1.0026		1.0031	1.0022	1.0039	.9999	1.0003			
9		1.0021	.9897		.9976	.9999	.9984	1.0028	1.0033		1.0024	1.0024	1.0033	.9992	1.0002			
10		1.0013	.9901		.9972	.9999	.9982	1.0032	1.0026		1.0024	1.0028	1.0038	.9997	1.0003			
11		1.0024	.9871		.9976	.9997	.9982	1.0029	1.0022	1.0022		1.0029	1.0011	.9994	1.0008			
12		1.0036	.9923		.9968	.9984	.9984	1.0013	1.0033		1.0025	1.0014	1.0033	.9999	1.0002			
13		1.0032	.9917		.9971	.9992	.9982	1.0019	1.0042		1.0024	1.0004	1.0028	1.0000	1.0007			
14		1.0032	.9917		.9975	.9989	.9988	1.0033	1.0042		1.0018	1.0017	1.0028	1.0000	1.0004			
15		1.0033	.9916		.9965	.9991	.9976	1.0019	1.0041	1.0125		1.0009	1.0007	.9986	.9990			
16		1.0049	.9932		.9971	1.0000	.9979	1.0035	1.0043		1.0017	1.0015	1.0015	.9994	1.0001			
17		1.0053	.9922		.9968	.9990	.9982	1.0025	1.0048		1.0020	1.0028	1.0020	.9992	1.0006			
18		1.0056	.9953		.9964	1.0000	.9972	1.0027	1.0037		1.0019	1.0026	1.0009	.9995	1.0004			
19		1.0067	.9919		.9978	.9999	.9984	1.0036	1.0046	.9961		1.0023	1.0011	.9990	1.0008			
20		1.0050	.9914		.9944	1.0005	.9979	1.0044	1.0041		1.0032	.9992	1.0027	.9985	1.0005			
21		1.0045	.9922		.9971	1.0003	.9985	1.0025	1.0036		1.0029	1.0019	1.0022	.9979	1.0005			
MEAN		1.0025	.9906		.9971	.9997	.9983	1.0027	1.0036	1.0068		1.0015	1.0028	.9993	1.0003			
S.D.		.0025	.0024		.0008	.0007	.0005	.0004	.0004	.0073		.0007	.0009	.0006	.0005			

20	23	24	MEAN	S. D.
752.0	750.0	751.5	750.96	3.148
749.0	747.4	749.0	748.89	2.658
747.0	745.7	747.0	747.46	3.433
745.0	743.4	745.0	744.84	2.372
742.0	741.1	742.5	742.80	2.163
741.0	738.4	740.0	739.92	3.155
739.0	736.3	738.0	738.19	3.548
736.0	733.8	735.0	735.10	2.603
734.0	731.9	734.0	733.57	2.529
732.0	729.8	731.0	731.25	2.475
729.0	727.3	729.0	728.42	2.828
726.0	724.3	725.5	725.59	2.150
722.0	720.5	722.0	722.00	2.194
720.0	716.9	720.0	719.99	2.354
717.0	717.0	718.0	719.03	3.219
716.0	715.1	716.0	716.91	2.199
713.0	713.0	714.0	714.59	2.420
711.0	710.3	711.5	712.38	2.094
708.0	707.4	708.0	708.74	2.485
706.0	705.0	706.0	706.07	2.634
702.0	700.5	702.0	702.46	2.227
1.0014	.9987	1.0007		
1.0002	.9980	1.0002		
.9994	.9976	.9994		
1.0002	.9981	1.0002		
.9989	.9977	.9996		
1.0015	.9979	1.0001		
1.0011	.9974	.9997		
1.0012	.9982	.9999		
1.0006	.9977	1.0006		
1.0010	.9980	.9997		
1.0008	.9985	1.0008		
1.0006	.9982	.9999		
1.0000	.9983	1.0000		
1.0000	.9957	1.0000		
.9972	.9972	.9986		
.9987	.9975	.9987		
.9978	.9978	.9992		
.9981	.9971	.9988		
.9990	.9981	.9990		
.9999	.9985	.9999		
.9993	.9972	.9993		
.9998	.9978	.9997		
.0012	.0007	.0006		

TABLE 3-14

THIRD INTERCOMPARISON - NOVEMBER 8, 1979  
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	14:08:00	925.0			926.8	935.2			934.0		933.3	730.0	934.0	932.0				
2	14:08:30	921.0			925.9	933.0			935.0		931.9	929.7	933.0	930.0	929.8			
3	14:09:00	921.0			925.9	932.2			933.0	947.0	931.4	929.0	932.0	929.0	929.2			
4	14:09:30	920.0			926.8	934.5			935.0		932.1	930.0	933.0	931.0	930.0			
5	14:10:00	922.0			928.5	936.0			936.0		933.0	931.4	934.0	932.0	931.1			
6	14:10:30	923.0			929.3	936.7			937.0		934.8	932.6	935.0	936.0	932.7			
7	14:11:00	933.0			931.9	938.2			938.0		935.8	932.9	936.0	935.0	933.7			
8	14:11:30	928.0			932.7	940.5			940.0		937.5	934.8	938.0	936.0	935.0			
9	14:12:00	932.0			932.7	939.7			940.0	936.0	937.8	935.3	938.0	937.0	935.3			
10	14:12:30	935.0			932.7	939.0			940.0		937.7	935.3	938.0	937.0	934.8			
11	14:13:00	940.0			932.7	938.2			938.0		937.5	934.0	938.0	936.5	934.5			
12	14:13:30	931.0			931.0	936.7			937.0		936.6	932.2	937.0	936.0	933.3			
13	14:14:00	934.0			931.0	936.7			939.0	938.0	936.0	931.9	936.0	935.0	932.8			
14	14:14:30	934.0			930.2	935.2			936.0		935.1	932.4	936.0	934.5	932.0			
15	14:15:00	929.0			929.3	934.5			935.0		933.9	930.9	934.0	933.0	930.9			
16	14:15:30	920.0			929.3	933.7			935.0		933.3	931.4	935.0	933.0	930.2			
17	14:16:00	920.0			929.3	933.0			934.0	947.0	934.0	931.6	935.0	934.0	931.0			
18	14:16:30	920.0			928.5	930.7			933.0		933.0	931.8	934.0	933.0	930.2			
19	14:17:00	921.0			926.8	930.7			934.0		931.2	928.6	932.0	931.0	928.5			
20	14:17:30	920.0			925.9	928.5			932.0		930.0	928.1	931.0	930.0	927.3			
21	14:18:00	914.0			925.1	928.5			931.0	925.0	928.9	928.2	930.0	929.0	926.7			
1		9934			9953	1.0043			1.0052		1.0023	9988	1.0030	1.0009				
2		9907			9959	1.0036			1.0057		1.0024	1.0000	1.0036	1.0003	1.0001			
3		9900			9953	1.0020			1.0029	1.0179	1.0012	9986	1.0018	9986	9988			
4		9893			9966	1.0049			1.0054		1.0023	1.0000	1.0033	1.0011	1.0000			
5		9901			9971	1.0051			1.0051		1.0019	1.0002	1.0030	1.0009	9999			
6		9897			9965	1.0044			1.0047		1.0024	1.0000	1.0026	1.0015	1.0001			
7		9985			9973	1.0041			1.0038		1.0015	9984	1.0017	1.0006	9992			
8		9920			9970	1.0053			1.0048		1.0021	9992	1.0027	1.0005	9994			
9		9957			9964	1.0039			1.0042	9999	1.0019	9992	1.0021	1.0010	9992			
10		9988			9964	1.0031			1.0042		1.0017	9992	1.0020	1.0010	9986			
11		1.0041			9964	1.0022			1.0020		1.0015	9977	1.0020	1.0004	9983			
12		9964			9964	1.0025			1.0028		1.0024	9977	1.0028	1.0018	9989			
13		9993			9961	1.0022			1.0046	1.0036	1.0014	9970	1.0014	1.0003	9980			
14		1.0003			9962	1.0016			1.0024		1.0015	9986	1.0024	1.0008	9982			
15		9967			9970	1.0026			1.0031		1.0020	9987	1.0021	1.0010	9987			
16		9879			9979	1.0027			1.0041		1.0022	1.0002	1.0041	1.0019	9989			
17		9863			9963	1.0002			1.0034	1.0152	1.0013	9987	1.0024	1.0013	9981			
18		9887			9978	1.0002			1.0037		1.0026	1.0013	1.0017	1.0026	9996			
19		9912			9975	1.0017			1.0041		1.0022	9994	1.0031	1.0020	9993			
20		9913			9977	1.0005			1.0042		1.0021	1.0000	1.0032	1.0021	9992			
21		9862			9982	1.0019			1.0046	9981	1.0023	1.0016	1.0035	1.0024	1.0000			
MEAN		9932			9967	1.0028			1.0041	1.0070	1.0020	9993	1.0027	1.0011	9991			
S.D.		0.0050			0.0008	0.0016			0.0010	0.0091	0.0004	0.0011	0.0007	0.0009	0.0007			

20	23	24	MEAN	S.D.
931.0	929.5	930.0	931.16	3.399
930.0	928.0	929.0	929.69	3.673
929.0	927.4	928.0	930.32	5.914
930.0	928.3	929.0	929.97	3.975
931.0	929.5	930.0	931.21	3.743
933.0	931.1	932.0	932.60	3.748
934.0	931.9	932.5	934.41	2.200
936.0	933.7	934.0	935.52	3.389
936.0	933.9	935.0	936.05	2.435
936.0	933.6	934.0	936.09	2.264
937.0	933.0	934.0	936.12	2.380
936.0	932.3	933.0	934.34	2.417
936.0	931.9	932.5	934.68	2.531
936.0	931.2	932.0	933.72	2.062
934.0	930.3	930.0	932.07	2.203
934.0	929.8	930.0	931.22	4.091
934.0	930.4	931.0	932.79	5.851
933.0	929.4	929.0	930.55	3.846
931.0	928.0	928.0	929.15	3.187
930.0	927.1	927.0	928.07	3.132
929.0	926.3	926.0	926.75	4.259
.9996	.9982	.9980		
1.0003	.9982	.9993		
.9986	.9969	.9975		
1.0000	.9982	.9990		
.9998	.9982	.9987		
1.0004	.9984	.9994		
.9996	.9973	.9980		
1.0005	.9981	.9984		
.9999	.9977	.9989		
.9999	.9973	.9978		
1.0009	.9967	.9977		
1.0013	.9978	.9986		
1.0014	.9970	.9977		
1.0024	.9973	.9982		
1.0021	.9981	.9978		
1.0030	.9985	.9987		
1.0013	.9974	.9981		
1.0026	.9988	.9983		
1.0020	.9988	.9988		
1.0021	.9989	.9988		
1.0024	.9995	.9992		
1.0010	.9980	.9984		
.0012	.0007	.0006		

TABLE 3-15

THIRD INTERCOMPARISON - NOVEMBER 8, 1979  
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	14:25:00	926.0			921.6	922.6			932.0	925.0	926.3	924.0	927.0	923.0	924.6			
2	14:25:30	917.0			921.6	924.1			930.0	930.0	926.6	924.7	928.0	922.0	924.6			
3	14:26:00	916.0			922.5	923.6			931.0	924.0	926.7	925.5	928.0	923.0	924.8			
4	14:26:30	911.0			922.5	923.4			933.0	916.0	926.8	926.0	928.0	923.0	925.1			
5	14:27:00	912.0			923.3	925.6			932.0	930.0	928.2	926.8	929.0	924.5	926.2			
6	14:27:30	919.0			924.2	925.6			933.0	930.0	928.5	927.0	930.0	925.0	926.6			
7	14:28:00	922.0			924.2	926.4			934.0	924.0	928.2	926.1	929.0	925.0	926.7			
8	14:28:30	927.0			925.0	927.1			934.0	930.0	928.9	928.3	930.0	925.0	927.5			
9	14:29:00	932.0			925.0	927.1			933.0	930.0	928.7	927.8	930.0	925.0	927.5			
10	14:29:30	925.0			925.0	927.1			935.0	921.0	929.3	928.0	930.0	925.0	927.9			
11	14:30:00	923.0			924.2	926.4			932.0	934.0	928.5	926.6	929.0	924.0	927.1			
12	14:30:30	922.0			923.3	924.1			932.0	924.0	928.2	925.7	929.0	924.0	926.5			
13	14:31:00	922.0			923.3	924.9			932.0	921.0	927.4	925.5	929.0	924.0	926.1			
14	14:31:30	921.0			921.6	923.4			931.0	924.0	926.3	924.9	927.0	922.0	924.8			
15	14:32:00	919.0			921.6	923.4			930.0	921.0	925.4	921.8	926.0	921.0	924.0			
16	14:32:30	925.0			920.8	922.6			929.0	930.0	925.3	924.5	926.0	920.0	923.4			
17	14:33:00	921.0			919.9	921.1			929.0	924.0	925.1	922.6	926.0	921.0	923.3			
18	14:33:30	920.0			919.9	919.6			928.0	924.0	924.8	923.1	925.0	920.0	922.9			
19	14:34:00	924.0			918.3	918.9			925.0	924.0	923.4	921.5	924.0	919.0	921.4			
20	14:34:30	914.0			918.3	917.4			925.0	924.0	922.2	921.7	924.0	918.0	920.8			
21	14:35:00	911.0			918.3	917.4			926.0	921.0	922.3	920.6	923.0	918.5	928.5			
1		1.0014			.9966	.9977			1.0079	1.0003	1.0017	.9992	1.0025	.9982	.9999			
2		.9919			.9969	.9996			1.0060	1.0060	1.0023	1.0002	1.0038	.9973	1.0001			
3		.9911			.9981	.9991			1.0073	.9998	1.0027	1.0014	1.0041	.9987	1.0006			
4		.9865			.9989	.9999			1.0103	.9919	1.0036	1.0027	1.0049	.9995	1.0018			
5		.9854			.9976	1.0000			1.0070	1.0048	1.0029	1.0013	1.0037	.9989	1.0007			
6		.9919			.9975	.9990			1.0070	1.0037	1.0021	1.0005	1.0037	.9983	1.0001			
7		.9955			.9978	1.0002			1.0084	.9976	1.0022	.9999	1.0030	.9987	1.0005			
8		.9992			.9971	.9993			1.0068	1.0025	1.0013	1.0006	1.0025	.9971	.9998			
9		1.0043			.9967	.9990			1.0053	1.0021	1.0007	.9997	1.0021	.9967	.9994			
10		.9977			.9977	.9999			1.0065	.9934	1.0023	1.0009	1.0031	.9977	1.0008			
11		.9955			.9968	.9992			1.0052	1.0074	1.0015	.9994	1.0020	.9966	1.0000			
12		.9959			.9973	.9981			1.0067	.9980	1.0026	.9999	1.0034	.9980	1.0007			
13		.9964			.9978	.9995			1.0072	.9953	1.0022	1.0002	1.0040	.9986	1.0008			
14		.9966			.9973	.9976			1.0075	.9999	1.0024	1.0009	1.0031	.9977	1.0007			
15		.9953			.9981	1.0000			1.0072	.9975	1.0022	1.0005	1.0029	.9975	1.0007			
16		1.0010			.9964	.9984			1.0053	1.0064	1.0013	1.0004	1.0021	.9956	.9992			
17		.9978			.9966	.9979			1.0065	1.0011	1.0023	.9996	1.0032	.9978	1.0003			
18		.9973			.9972	.9965			1.0059	1.0016	1.0025	1.0006	1.0027	.9973	1.0004			
19		1.0026			.9964	.9971			1.0037	1.0026	1.0019	.9999	1.0026	.9972	.9998			
20		.9930			.9977	.9967			1.0049	1.0039	1.0019	1.0014	1.0039	.9973	1.0004			
21		.9905			.9904	.9974			1.0068	1.0014	1.0028	1.0009	1.0035	.9986	1.0008			
MEAN		.9956			.9974	.9987			1.0067	1.0008	1.0022	1.0005	1.0032	.9978	1.0004			
S.D.		.0049			.0007	.0011			.0014	.0041	.0006	.0008	.0808	.0009	.0006			



20	23	24	MEAN	S. D.
924.0	922.1	923.0	924.71	2.746
924.0	922.7	923.0	924.48	3.583
924.0	922.9	923.0	924.22	3.469
924.0	923.4	923.0	923.48	5.358
925.0	924.6	925.0	925.55	4.775
926.0	925.0	925.0	926.53	3.420
925.0	925.0	925.0	926.20	2.961
926.0	925.4	926.0	927.71	2.559
927.0	925.5	926.0	928.05	2.579
927.0	925.7	927.0	927.15	3.285
927.0	925.1	926.0	927.15	3.135
926.0	924.9	926.0	925.82	2.675
925.0	924.2	925.0	925.34	2.891
923.0	922.9	923.0	924.11	2.753
923.0	922.6	923.0	923.35	2.742
923.0	921.7	922.0	924.10	2.981
922.0	922.1	922.0	923.01	2.495
921.0	921.4	922.0	922.52	2.482
921.0	920.4	920.0	921.61	2.263
921.0	919.4	920.0	920.45	3.079
920.0	919.2	919.0	919.75	3.484

922	9272	9282
925	9281	9284
928	9286	9287
1.0006	9299	9295
9294	9290	9294
9287	9283	9283
9282	9287	9287
9289	9275	9282
9289	9273	9278
9298	9284	9298
9298	9278	9288
1.0002	9290	1.0002
9296	9288	9296
9288	9287	9288
9296	9290	9296
9288	9274	9277
9289	9290	9289
9294	9288	9294
9293	9287	9283
1.0006	9289	9295
1.0003	9294	9292
9295	9285	9289
.0006	.0007	.0007

TABLE 3-16

THIRD INTERCOMPARISON - NOVEMBER 8, 1979  
 RUN 16: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	14:45:00	904.0			909.1	913.6			912.0	925.0	916.5	914.4	915.0	911.5	912.7			
2	14:45:30	904.0			908.7	913.6			915.0	925.0	916.8	912.6	915.0	912.0	912.8			
3	14:46:00	900.0			908.7	913.6			914.0	925.0	915.9	911.2	914.0	911.0	911.6			
4	14:46:30	901.0			907.0	912.8			914.0	916.0	916.6	912.7	914.0	911.5	911.7			
5	14:47:00	898.0			907.0	912.1			915.0	925.0	916.2	911.1	914.0	911.0	911.4			
6	14:47:30	897.0			908.7	912.1			913.0	916.0	915.9	911.2	914.0	911.0	911.3			
7	14:48:00	894.0			908.7	912.1			913.0	907.0	916.0	911.8	914.0	911.0	911.2			
8	14:48:30	894.0			907.8	911.3			915.0	925.0	914.7	910.7	913.0	911.0	910.4			
9	14:49:00	887.0			906.1	910.6			912.0	916.0	913.3	910.0	912.0	909.5	909.0			
10	14:49:30	887.0			905.3	909.8			909.0	907.0	912.6	908.6	911.0	908.0	908.1			
11	14:50:00	886.0			906.1	909.8			911.0	907.0	912.5	909.3	911.0	908.0	908.2			
12	14:50:30	884.0			906.1	909.8			905.0	912.0	912.5	908.8	911.0	908.5	908.1			
13	14:51:00	886.0			905.3	909.8			908.0	907.0	912.6	907.6	910.0	908.0	907.3			
14	14:51:30	887.0			905.3	908.3			909.0	903.0	912.1	908.0	910.0	908.0	907.7			
15	14:52:00	886.0			903.6	907.6			909.0	921.0	911.2	907.5	910.0	907.5	906.7			
16	14:52:30	886.0			902.8	906.0			908.0	898.0	909.9	905.6	908.0	905.0	905.0			
17	14:53:00	886.0			901.1	904.5			907.0	912.0	909.6	903.9	907.0	905.0	903.7			
18	14:53:30	879.0			900.2	904.5			899.0	912.0	907.5	902.7	905.0	902.0	902.8			
19	14:54:00	881.0			898.5	903.0			903.0	907.0	906.2	901.0	904.0	901.7	901.7			
20	14:54:30	880.0			897.7	901.5			902.0	903.0	904.7	900.0	903.0	901.8	900.3			
21	14:55:00	878.0			896.0	900.0			901.0	907.0	904.0	899.4	902.0	899.0	899.3			
1		.9900			.9956	1.0005			.9980	1.0130	1.0037	1.0014	1.0021	.9982	.9995			
2		.9899			.9950	1.0004			1.0019	1.0129	1.0039	.9993	1.0019	.9986	.9995			
3		.9897			.9963	1.0017			1.0021	1.0142	1.0042	.9990	1.0021	.9988	.9995			
4		.9884			.9950	1.0013			1.0027	1.0049	1.0055	1.0012	1.0027	.9999	1.0001			
5		.9849			.9956	1.0003			1.0035	1.0145	1.0048	.9992	1.0024	.9991	.9996			
6		.9846			.9975	1.0012			1.0022	1.0055	1.0054	1.0002	1.0033	1.0000	1.0003			
7		.9823			.9985	1.0022			1.0032	.9966	1.0065	1.0019	1.0043	1.0010	1.0012			
8		.9814			.9966	1.0004			1.0045	1.0155	1.0042	.9998	1.0023	1.0001	.9994			
9		.9763			.9973	1.0023			1.0038	1.0082	1.0052	1.0016	1.0038	1.0011	1.0005			
10		.9780			.9982	1.0031			1.0023	1.0001	1.0062	1.0020	1.0045	1.0012	1.0013			
11		.9768			.9989	1.0030			1.0043	.9999	1.0060	1.0025	1.0043	1.0010	1.0013			
12		.9746			.9989	1.0030			1.0021	1.0054	1.0060	1.0019	1.0043	1.0016	1.0011			
13		.9775			.9988	1.0038			1.0018	1.0007	1.0069	1.0014	1.0040	1.0018	1.0017			
14		.9789			.9991	1.0024			1.0032	.9966	1.0066	1.0021	1.0043	1.0021	1.0017			
15		.9770			.9965	1.0009			1.0024	1.0156	1.0048	1.0008	1.0035	1.0008	.9999			
16		.9804			.9990	1.0026			1.0048	.9937	1.0069	1.0021	1.0048	1.0015	1.0015			
17		.9804			.9971	1.0009			1.0036	1.0092	1.0065	1.0002	1.0036	1.0014	1.0000			
18		.9748			.9983	1.0031			.9970	1.0114	1.0064	1.0011	1.0037	1.0003	1.0012			
19		.9780			.9974	1.0024			1.0024	1.0068	1.0060	1.0002	1.0035	1.0013	1.0010			
20		.9785			.9982	1.0024			1.0029	1.0040	1.0059	1.0007	1.0040	1.0018	1.0010			
21		.9770			.9970	1.0015			1.0026	1.0093	1.0059	1.0008	1.0037	1.0004	1.0007			
MEAN		.9808			.9974	1.0019			1.0025	1.0066	1.0056	1.0009	1.0035	1.0006	1.0005			
S.D.		.0048			.0013	.0011			.0018	.0067	.0010	.0010	.0009	.0011	.0008			

	20	23	24	MEAN	S.D.
	914.0	911.2	911.5	913.12	4.730
	914.0	911.1	911.5	913.24	4.775
	912.0	910.2	910.0	912.09	5.466
	913.0	910.2	910.0	911.58	4.068
	912.0	909.7	910.0	911.79	5.946
	913.0	909.7	910.0	910.99	4.755
	912.0	910.2	910.0	910.08	5.337
	911.0	908.9	909.0	910.91	6.694
	910.0	907.5	908.0	908.54	6.971
	910.0	906.7	907.0	906.95	6.302
	909.0	906.9	907.0	907.06	6.605
	909.0	906.3	907.0	907.08	7.211
	909.0	906.0	906.0	906.35	6.423
	909.0	906.2	906.0	906.12	6.176
	908.0	905.0	905.5	906.82	7.566
	906.0	903.6	904.0	903.68	6.053
	904.0	902.0	902.5	903.72	6.139
	904.0	901.4	902.0	901.70	7.589
	903.0	900.0	900.5	900.84	6.608
	901.0	898.5	899.0	899.36	6.135
	901.0	897.8	898.0	898.65	6.820
	1.0010	.9979	.9982		
	1.0008	.9977	.9981		
	.9999	.9979	.9977		
	1.0016	.9985	.9983		
	1.0002	.9977	.9980		
	1.0022	.9986	.9989		
	1.0021	1.0001	.9999		
	1.0001	.9978	.9979		
	1.0016	.9989	.9994		
	1.0034	.9977	1.0001		
	1.0021	.9998	.9999		
	1.0021	.9991	.9999		
	1.0029	.9996	.9996		
	1.0032	1.0001	.9999		
	1.0013	.9980	.9985		
	1.0026	.9999	1.0003		
	1.0003	.9981	.9987		
	1.0026	.9997	1.0003		
	1.0024	.9991	.9996		
	1.0018	.9990	.9996		
	1.0026	.9990	.9993		
	1.0018	.9989	.9992		
	.0010	.0009	.0009		

TABLE 3-17

THIRD INTERCOMPARISON - NOVEMBER 8, 1979  
 RUN 17: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	15:05:00	856.0			871.0	874.5			880.0	880.0	876.2	874.3	876.0	875.0	874.5			
2	15:05:30	854.0			869.3	873.8			876.0	873.0	874.2	872.4	875.0	872.0	872.0			
3	15:06:00	854.0			867.6	871.5			875.0	878.0	874.3	870.9	872.0	870.0	870.1			
4	15:06:30	850.0			865.9	869.3			873.0	869.0	871.3	869.0	871.0	868.0	868.5			
5	15:07:00	853.0			865.9	870.0			873.0	869.0	870.1	869.0	871.0	869.0	869.2			
6	15:07:30	851.0			866.0	871.5			874.0	873.0	870.3	869.1	871.0	868.5	869.2			
7	15:08:00	852.0			865.9	870.8			873.0	869.0	870.2	868.2	871.0	869.0	868.6			
8	15:08:30	852.0			863.4	868.5			871.0	873.0	868.3	867.4	869.0	867.0	866.9			
9	15:09:00	846.0			862.5	866.2			869.0	869.0	866.3	863.9	867.0	865.0	865.1			
10	15:09:30	848.0			860.9	866.2			867.0	869.0	865.3	863.9	866.0	864.0	863.8			
11	15:10:00	846.0			860.9	864.7			866.0	869.0	865.5	864.5	866.0	863.5	863.6			
12	15:10:30	845.0			861.7	864.0			869.0	864.0	865.7	864.6	866.0	864.0	864.0			
13	15:11:00	844.0			861.7	864.7			868.0	860.0	865.2	863.8	866.0	864.0	862.9			
14	15:11:30	847.0			861.7	864.7			868.0	873.0	865.5	864.5	866.0	865.0	864.0			
15	15:12:00	846.0			860.9	864.7			867.0	873.0	864.4	863.5	865.0	864.0	862.7			
16	15:12:30	845.0			860.0	864.0			868.0	869.0	864.1	862.4	864.0	863.0	862.7			
17	15:13:00	841.0			856.6	861.0			865.0	864.0	860.9	858.9	861.0	860.0	859.6			
18	15:13:30	839.0			854.9	858.7			863.0	864.0	858.6	857.8	859.0	857.5	857.8			
19	15:14:00	841.0			853.2	857.2			859.0	858.0	856.5	855.3	857.0	855.0	855.3			
20	15:14:30	844.0			853.2	857.2			860.0	869.0	856.9	856.5	858.0	855.5	855.8			
21	15:15:00	839.0			850.7	855.7			857.0	860.0	855.1	853.9	855.0	853.5	853.8			
1		.9799			.9970	1.0010			1.0073	1.0072	1.0030	1.0008	1.0028	1.0016	1.0010			
2		.9803			.9979	1.0030			1.0056	1.0021	1.0035	1.0014	1.0044	1.0010	1.0010			
3		.9815			.9972	1.0016			1.0057	1.0091	1.0049	1.0009	1.0022	.9999	1.0000			
4		.9798			.9981	1.0021			1.0063	1.0017	1.0055	1.0017	1.0040	1.0006	1.0011			
5		.9830			.9979	1.0026			1.0061	1.0014	1.0027	1.0014	1.0037	1.0014	1.0017			
6		.9801			.9983	1.0037			1.0066	1.0054	1.0023	1.0009	1.0031	1.0002	1.0011			
7		.9820			.9980	1.0036			1.0062	1.0016	1.0029	1.0006	1.0039	1.0016	1.0011			
8		.9836			.9967	1.0026			1.0055	1.0078	1.0024	1.0013	1.0032	1.0009	1.0008			
9		.9794			.9985	1.0028			1.0060	1.0060	1.0029	1.0001	1.0037	1.0014	1.0015			
10		.9833			.9983	1.0044			1.0053	.9972	1.0034	1.0017	1.0042	1.0018	1.0016			
11		.9805			.9977	1.0021			1.0036	1.0071	1.0031	1.0019	1.0036	1.0007	1.0009			
12		.9794			.9987	1.0014			1.0072	1.0014	1.0034	1.0021	1.0037	1.0014	1.0014			
13		.9791			.9996	1.0031			1.0069	.9976	1.0037	1.0021	1.0046	1.0023	1.0018			
14		.9807			.9977	1.0012			1.0050	1.0108	1.0021	1.0009	1.0027	1.0015	1.0004			
15		.9806			.9979	1.0023			1.0049	1.0119	1.0019	1.0009	1.0026	1.0015	1.0000			
16		.9803			.9977	1.0024			1.0070	1.0082	1.0025	1.0005	1.0024	1.0012	1.0000			
17		.9791			.9973	1.0024			1.0070	1.0117	1.0023	.9999	1.0024	1.0012	1.0008			
18		.9793			.9979	1.0023			1.0073	1.0085	1.0022	1.0012	1.0026	1.0009	1.0012			
19		.9842			.9985	1.0022			1.0053	1.0041	1.0023	1.0009	1.0029	1.0006	1.0009			
20		.9840			.9967	1.0014			1.0047	1.0152	1.0010	1.0006	1.0023	.9994	.9997			
21		.9834			.9971	1.0030			1.0045	1.0080	1.0023	1.0009	1.0022	1.0004	1.0008			
MEAN		.9812			.9978	1.0025			1.0059	1.0059	1.0029	1.0011	1.0032	1.0010	1.0009			
S.D.		.0020			.0007	.0009			.0010	.0047	.0010	.0036	.0008	.0007	.0005			

	20	23	24	MEAN	S. D.
	874.0	872.2	873.0	873.59	5.899
	872.0	870.4	871.0	871.16	5.477
	870.0	868.6	869.0	870.08	5.621
	868.0	866.6	867.0	867.51	5.662
	866.0	864.5	867.0	867.75	4.819
	869.0	866.8	867.5	868.28	5.646
	868.0	866.7	867.0	867.65	5.087
	865.0	864.4	865.0	866.24	5.036
	864.0	862.7	863.0	863.82	5.773
	863.0	861.2	862.0	862.41	4.840
	864.0	861.5	862.0	862.86	5.503
	864.0	861.9	862.5	862.80	5.675
	863.0	861.1	862.0	862.03	5.827
	864.0	862.0	862.5	863.48	5.804
	862.0	860.8	861.5	862.73	5.963
	862.0	860.4	861.0	861.97	5.742
	858.0	857.4	858.0	858.95	6.346
	856.0	855.2	856.0	856.73	5.977
	854.0	852.9	854.0	854.49	6.459
	855.0	853.1	854.0	856.02	5.455
	854.0	851.2	852.0	853.15	4.905
	1.0005	.9984	.9993		
	1.0010	.9991	.9998		
	.9999	.9983	.9988		
	1.0006	.9990	.9994		
	1.0003	.9986	.9991		
	1.0008	.9983	.9991		
	1.0004	.9989	.9993		
	.9986	.9981	.9986		
	1.0002	.9987	.9990		
	1.0007	.9986	.9995		
	1.0013	.9984	.9990		
	1.0014	.9990	.9997		
	.0011	.9989	1.0000		
	.0004	.9980	.9986		
	.9992	.9978	.9986		
	1.0000	.9982	.9989		
	.9989	.9982	.9989		
	.9991	.9982	.9991		
	.9994	.9981	.9994		
	.9988	.9966	.9976		
	1.0010	.9977	.9987		
	1.0002	.9983	.9991		
	.0009	.0006	.0005		

TABLE 3-10

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 18: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																	
		1	3	5	7	8	9	10	11	12	13	14	17	18	19				
1	09:05:00	824.3			825.9	830.4	828.2		834.0	843.0	831.1	829.1	830.0	830.0	829.3				
2	09:05:30	825.3	809.0		827.6	831.8	830.1		836.0	839.0	833.3	830.3	833.0	833.0	830.4				
3	09:06:00	827.3	830.0		828.4	832.6	831.1		837.0	843.0	834.5	831.1	833.0	833.0	831.5				
4	09:06:30	828.2	827.0		829.3	834.1	833.0		838.0	839.0	835.2	832.7	834.0	833.0	831.8				
5	09:07:00	831.2	812.0		830.9	835.6	834.0		839.0	835.0	835.9	835.7	835.0	834.0	834.0				
6	09:07:30	831.2	814.0		831.8	837.1	834.9		840.0	839.0	837.2	834.0	836.0	835.5	834.7				
7	09:08:00	830.2	816.0		832.6	837.1	835.8		841.0	835.0	837.9	836.6	837.0	837.0	836.0				
8	09:08:30	834.2	817.0		833.5	837.8	836.1		842.0	839.0	838.5	837.2	839.0	838.0	837.5				
9	09:09:00	833.2	818.0		834.3	838.5	837.7		842.0	839.0	839.6	837.2	839.0	838.0	837.7				
10	09:09:30	834.2	818.0		835.2	839.3	837.9		843.0	843.0	840.5	837.9	839.0	839.0	838.5				
11	09:10:00	835.2	819.0		836.9	840.8	839.4		845.0	843.0	841.3	840.2	841.0	840.0	837.6				
12	09:10:30	837.2	820.0		837.7	842.3	840.8		846.0	848.0	842.8	840.7	842.0	840.5	840.7				
13	09:11:00	839.2	821.0		837.7	841.5	840.9		846.0	848.0	843.2	841.4	842.0	841.5	841.1				
14	09:11:30	839.2	822.0		839.4	843.8	841.5		847.0	848.0	843.8	841.9	843.0	842.0	842.1				
15	09:12:00	839.2	822.0		839.4	843.8	841.5		847.0	848.0	843.8	841.9	843.0	842.0	842.1				
16	09:12:30	841.1	823.0		839.4	843.8	841.5		847.0	848.0	843.8	841.9	843.0	842.0	842.1				
17	09:13:00	846.1	822.0		841.1	844.5	843.2		849.0	848.0	845.6	845.2	845.0	844.0	844.4				
18	09:13:30	845.1	821.0		842.4	846.0	845.0		849.0	843.0	846.6	844.6	846.0	846.0	844.4				
19	09:14:00	845.1	823.0		842.4	846.7	844.8		851.0	852.0	846.3	845.6	846.0	845.0	845.8				
20	09:14:30	844.1	826.0		842.8	847.5	846.2		852.0	852.0	847.5	845.8	847.0	846.0	845.9				
21	09:15:00	845.1	827.0		843.6	848.2	845.6		853.0	852.0	847.9	847.6	847.0	847.0	846.2				
1		.9930			.9950	1.0004	.9977		1.0047	1.0156	1.0012	.9988	.9999	.9999	.9991				
2		.9946	.9750		.9974	1.0024	1.0004		1.0075	1.0111	1.0043	1.0006	1.0039	1.0015	1.0008				
3		.9944	.9976		.9957	1.0008	.9990		1.0048	1.0096	1.0022	.9990	1.0012	1.0000	.9994				
4		.9974	.9935		.9952	1.0003	.9985		1.0055	1.0128	1.0025	.9985	1.0007	1.0007	.9993				
5		.9998	.9759		.9967	1.0025	1.0012		1.0072	1.0084	1.0038	1.0008	1.0024	1.0012	1.0011				
6		.9980	.9773		.9976	1.0033	1.0013		1.0073	1.0025	1.0036	1.0034	1.0025	1.0013	1.0013				
7		.9956	.9785		.9975	1.0038	1.0012		1.0073	1.0061	1.0040	1.0001	1.0025	1.0019	1.0010				
8		.9992	.9786		.9973	1.0027	1.0012		1.0074	1.0002	1.0037	1.0021	1.0026	1.0016	1.0014				
9		.9972	.9790		.9975	1.0027	1.0006		1.0077	1.0041	1.0035	1.0015	1.0029	1.0017	1.0011				
10		.9974	.9780		.9975	1.0025	1.0016		1.0067	1.0031	1.0038	1.0010	1.0031	1.0019	1.0016				
11		.9975	.9781		.9975	1.0024	1.0007		1.0068	1.0068	1.0038	1.0007	1.0020	1.0020	1.0014				
12		.9984	.9779		.9980	1.0027	1.0010		1.0077	1.0053	1.0035	1.0020	1.0029	1.0017	.9989				
13		.9991	.9774		.9973	1.0028	1.0010		1.0072	1.0096	1.0034	1.0009	1.0024	1.0006	1.0009				
14		.9967	.9782		.9969	1.0014	1.0007		1.0068	1.0091	1.0034	1.0013	1.0020	1.0014	1.0009				
15		.9978	.9774		.9980	1.0033	1.0005		1.0071	1.0083	1.0033	1.0010	1.0023	1.0011	1.0009				
16		.9994	.9779		.9973	1.0026	1.0002		1.0076	1.0076	1.0032	1.0013	1.0028	1.0004	1.0015				
17		1.0037	.9751		.9977	1.0018	1.0002		1.0071	1.0059	1.0031	1.0026	1.0023	1.0012	1.0010				
18		.9999	.9714		1.0316	1.0010	.9998		1.0045	.9974	1.0017	.9996	1.0010	.9986	.9991				
19		1.0010	.9748		.9978	1.0029	1.0006		1.0080	1.0092	1.0024	1.0016	1.0021	1.0009	1.0006				
20		.9989	.9775		.9973	1.0029	1.0014		1.0082	1.0082	1.0029	1.0009	1.0023	1.0011	1.0010				
21		.9993	.9779		.9975	1.0029	.9999		1.0086	1.0074	1.0026	1.0022	1.0015	1.0015	1.0006				
MEAN		.9981	.9769		.9968	1.0023	1.0004		1.0069	1.0071	1.0031	1.0009	1.0022	1.0011	1.0006				
S.D.		.0023	.0060		.0076	.0010	.0010		.0011	.0041	.0008	.0012	.0009	.0009	.0009				

20	23	24	MEAN	S. D.
810.0	828.3	827.5	830.08	4.379
811.0	829.0	829.0	829.77	6.609
812.0	830.0	830.0	831.97	3.050
812.0	831.1	830.0	832.39	3.780
813.0	831.8	831.0	832.01	6.076
814.0	832.9	832.0	832.08	5.606
815.0	834.1	833.0	833.90	5.565
816.0	835.2	834.0	834.03	5.290
816.0	835.8	835.5	835.58	5.319
818.0	836.7	836.0	836.39	5.456
818.0	837.6	836.5	837.31	5.555
819.0	838.0	838.0	838.56	5.586
840.0	839.7	838.0	839.96	5.916
841.0	840.2	839.0	840.31	5.690
841.0	841.0	840.0	841.05	5.829
842.0	841.6	840.0	841.64	5.711
843.0	842.7	842.0	843.02	6.108
844.0	843.7	843.0	845.17	9.754
844.0	844.3	843.0	846.27	6.632
844.0	844.9	844.0	845.05	5.898
845.0	845.4	845.0	845.71	5.775
845.0	845.4	845.0	845.71	5.775
.9999	.9979	.9969		
1.0015	1.0000	.9991		
1.0000	.9986	.9976		
.9995	.9985	.9971		
1.0012	.9997	.9980		
1.0013	1.0000	.9989		
1.0013	1.0002	.9989		
1.0014	1.0004	.9990		
1.0035	1.0003	.9999		
1.0019	1.0004	.9995		
1.0008	1.0004	.9990		
1.0005	1.0003	.9993		
1.0000	.9997	.9977		
1.0000	.9999	.9984		
.9999	.9999	.9980		
1.0004	1.0000	.9981		
1.0000	.9996	.9980		
.9986	.9983	.9974		
.9997	1.0000	.9985		
.9980	.9990	.9980		
.9992	.9996	.9992		
1.0004	.9997	.9986		
.0009	.0007	.0006		

TABLE 3-19

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 19: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	09:27:00	059.5	061.0		057.7		059.6		066.0	070.0	062.2	061.3	063.0	061.0	060.5			
2	09:27:30	059.5	062.0		057.7	062.5	059.3		065.0	074.0	062.9	061.3	063.0	061.0	060.0			
3	09:28:00	059.5	064.0		059.5	063.2	061.3		066.0	070.0	063.7	063.1	064.0	062.5	061.7			
4	09:28:30	062.5	065.0		060.3	064.0	062.4		066.0	061.0	064.5	064.2	064.0	063.5	062.0			
5	09:29:00	063.5	065.0		062.0	064.2	063.5		068.0	074.0	065.7	063.0	066.0	065.0	063.0			
6	09:29:30	065.4	066.0		062.0	067.0	064.2		070.0	074.0	066.2	066.5	066.0	064.0	064.4			
7	09:30:00	063.5	067.0		062.0	067.0	064.2		070.0	074.0	066.6	066.6	067.0	066.0	064.9			
8	09:30:30	066.4	068.0		063.6	068.5	065.3		070.0	074.0	067.4	066.9	067.0	067.0	065.5			
9	09:31:00	067.4	069.0		064.5	069.2	065.3		071.0	078.0	068.4	067.2	068.0	068.0	066.4			
10	09:31:30	067.4	071.0		065.3	069.2	066.2		071.0	078.0	068.1	068.2	068.0	068.0	067.4			
11	09:32:00	066.4	071.0		065.3	070.7	067.2		073.0	074.0	069.1	068.4	068.0	069.0	067.8			
12	09:32:30	069.4	071.0		066.2	070.7	067.5		072.0	078.0	070.0	069.0	070.0	068.5	068.5			
13	09:33:00	069.4	072.0		066.2	071.5	068.2		072.0	074.0	070.6	069.6	071.0	068.0	068.0			
14	09:33:30	072.4	073.0		067.0	071.5	069.1		072.0	074.0	071.7	069.6	071.0	069.0	069.1			
15	09:34:00	070.4	073.0		067.9	072.2	070.2		073.0	074.0	071.8	070.2	071.0	070.0	069.7			
16	09:34:30	071.4	074.0		067.9	073.7	070.4		073.0	078.0	072.4	071.7	073.0	071.5	070.1			
17	09:35:00	072.4	074.0		068.7	074.4	070.9		074.0	078.0	073.2	071.0	074.0	071.5	070.5			
18	09:35:30	072.4	072.0		068.7	073.7	070.9		074.0	078.0	073.5	071.7	073.0	071.5	070.0			
19	09:36:00	071.4	073.0		069.6	072.9	070.9		075.0	078.0	073.7	072.3	074.0	073.0	071.5			
20	09:36:30	071.4	075.0		068.7	072.9	071.2		075.0	083.0	073.4	070.2	073.0	072.5	070.9			
21	09:37:00	072.4	075.0		069.6	072.9	071.2		076.0	078.0	074.0	072.0	074.0	073.0	071.7			
1		0977	0994		0956		0978		1.0032	1.0099	1.0000	0998	1.0018	0994	0989			
2		0972	1.0001		0951	1.0007	0970		1.0036	1.0140	1.0011	0993	1.0012	0989	0987			
3		0962	1.0014		0962	1.0005	0983		1.0037	1.0084	1.0011	1.0004	1.0014	0997	0988			
4		0993	1.0022		0965	1.0011	0992		1.0034	0976	1.0017	1.0013	1.0011	1.0005	0997			
5		0982	0999		0965	1.0013	0982		1.0034	1.0103	1.0007	0986	1.0011	0999	0986			
6		0994	1.0001		0954	1.0012	0980		1.0047	1.0093	1.0003	1.0006	1.0001	1.0001	0984			
7		0967	1.0000		0950	1.0008	0975		1.0042	1.0135	1.0003	1.0003	1.0008	0994	0983			
8		0993	1.0011		0960	1.0017	0980		1.0034	1.0080	1.0004	0998	1.0000	1.0000	0982			
9		0994	1.0012		0961	1.0015	0970		1.0035	1.0116	1.0006	0992	1.0001	1.0001	0982			
10		0989	1.0031		0965	1.0010	0975		1.0031	1.0111	0997	0997	0996	0994	0989			
11		0974	1.0027		0961	1.0023	0983		1.0050	1.0061	1.0005	0997	0992	1.0004	0989			
12		0998	1.0016		0961	1.0013	0976		1.0028	1.0097	1.0005	0993	1.0005	0988	0988			
13		0997	1.0027		0960	1.0021	0983		1.0027	1.0050	1.0011	1.0000	1.0016	0981	0980			
14		1.0024	1.0030		0962	1.0013	0986		1.0019	1.0042	1.0016	0991	1.0008	0985	0986			
15		0997	1.0015		0960	1.0017	0994		1.0026	1.0038	1.0013	0994	1.0004	0992	0989			
16		0996	1.0026		0954	1.0023	0985		1.0015	1.0072	1.0008	1.0000	1.0015	0997	0981			
17		1.0001	1.0019		0958	1.0024	0983		1.0019	1.0065	1.0010	0985	1.0019	0990	0979			
18		1.0003	0999		0961	1.0010	0986		1.0022	1.0067	1.0016	0995	1.0010	0993	0985			
19		0987	1.0006		0967	1.0005	0982		1.0029	1.0063	1.0014	0998	1.0017	1.0006	0989			
20		0984	1.0026		0953	1.0002	0982		1.0026	1.0017	1.0007	0997	1.0003	0997	0979			
21		0994	1.0024		0962	1.0000	0981		1.0036	1.0059	1.0013	0999	1.0013	1.0001	0984			
MEAN		0989	1.0015		0960	1.0013	0981		1.0032	1.0079	1.0009	0995	1.0008	0996	0986			
S.D.		0014	0012		0005	0007	0006		0010	0037	0005	0009	0008	0007	0004			



20	23	24	MEAN	S.D.
061.0	058.4	059.5	061.48	3.195
061.0	058.9	060.0	061.93	3.822
062.3	060.1	061.0	062.77	2.706
063.0	060.8	062.0	063.87	1.618
064.0	062.3	063.0	065.05	2.947
064.0	063.3	064.0	065.95	2.904
065.0	063.3	064.0	066.34	3.789
066.0	064.5	065.5	067.04	2.507
066.0	064.9	065.5	067.92	3.322
066.0	065.4	066.0	068.35	3.204
067.0	066.1	067.0	068.67	2.523
069.0	066.7	067.0	069.57	2.855
069.0	066.8	067.5	069.64	2.184
070.0	067.0	068.0	070.35	2.065
071.0	068.0	069.0	070.69	1.724
071.0	068.0	069.0	071.73	2.505
073.0	069.5	070.0	072.34	2.390
072.0	069.6	070.0	072.12	2.232
072.0	070.2	070.0	072.50	2.169
073.0	070.3	071.0	072.77	3.332
072.0	070.6	071.0	072.89	2.211
0994	0964	0977		
0909	0965	0970		
0991	0969	0979		
0999	0974	0980		
0908	0968	0976		
0970	0969	0978		
0985	0965	0973		
0980	0971	0982		
0970	0965	0972		
0973	0966	0973		
0981	0970	0981		
0993	0967	0970		
0993	0967	0975		
0996	0971	0973		
1.0004	0969	0981		
0992	0964	0969		
1.0000	0971	0973		
0999	0971	0976		
0994	0974	0971		
1.0003	0972	0980		
0990	0974	0978		
0991	0969	0976		
0009	0003	0007		

TABLE 3-20

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 20: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		
		1	3	5	7	8	9	10	11	12	13	14	17	18	19					
1	09:50:00	879.4	881.0	884.8	881.0	886.1	881.4	889.0	884.9	884.3	884.0	882.0	883.1							
2	09:50:30	879.4	879.0	884.8	880.1	886.8	882.1	890.0	884.7	883.8	884.0	883.0	882.8							
3	09:51:00	883.4	880.0	884.8	880.5	887.6	882.5	889.0	884.9	884.0	885.0	883.0	883.4							
4	09:51:30	880.4	878.0	884.8	880.5	885.3	881.7	888.0	884.6	884.3	885.0	882.0	883.1							
5	09:52:00	881.4	880.0	885.3	881.0	886.8	882.3	890.0	885.1	883.9	885.0	883.0	883.3							
6	09:52:30	882.4	880.0	884.8	881.0	886.4	881.9	887.0	884.7	884.7	885.0	883.0	883.2							
7	09:53:00	881.4	882.0	885.7	881.0	885.3	882.1	890.0	886.0	884.2	885.0	883.0	883.4							
8	09:53:30	880.4	884.0	886.2	881.8	885.3	882.7	890.0	885.1	884.4	885.0	885.0	883.5							
9	09:54:00	882.4	883.0	885.7	881.8	885.3	882.4	889.0	885.1	884.9	885.0	884.0	883.9							
10	09:54:30	882.4	881.0	885.7	881.8	885.3	883.0	891.0	885.8	884.3	886.0	884.0	884.3							
11	09:55:00	884.4	880.0	886.6	882.2	885.3	883.6	890.0	885.0	884.6	886.0	884.0	884.3							
12	09:55:30	882.4	881.0	886.2	882.2	885.3	883.2	889.0	885.0	884.6	886.0	883.5	884.3							
13	09:56:00	884.4	881.0	887.5	883.5	886.1	884.4	890.0	886.6	885.2	887.0	885.0	885.1							
14	09:56:30	885.3	880.0	887.5	883.5	886.1	885.2	891.0	886.9	885.7	887.0	886.0	885.5							
15	09:57:00	885.3	882.0	888.3	884.3	886.1	885.1	893.0	887.5	886.8	888.0	886.0	885.7							
16	09:57:30	884.4	883.0	888.8	884.3	886.8	885.6	893.0	888.0	887.6	888.0	887.0	886.4							
17	09:58:00	889.3	883.0	889.2	885.2	886.8	886.2	893.0	886.0	885.3	888.0	887.0	886.6							
18	09:58:30	887.3	883.0	870.9	886.0	888.3	887.3	893.0	886.0	885.2	888.6	889.0	887.3							
19	09:59:00	886.3	884.0	890.9	886.9	889.1	888.3	894.0	890.0	889.6	890.1	891.0	888.6							
20	09:59:30	889.3	885.0	887.8	887.7	889.8	888.5	896.0	891.1	889.8	891.0	890.0	889.3							
21	10:00:00	890.3	884.0	890.9	887.7	889.8	889.4	895.0	896.0	891.7	891.3	892.0	890.0							
1		.9958	.9976	1.0019	.9976	1.0034	.9980	1.0066	1.0020	1.0013	1.0010	.9987	1.0000							
2		.9959	.9954	1.0020	.9967	1.0042	.9989	1.0079	1.0019	1.0008	1.0011	.9999	.9997							
3		.9973	.9959	1.0009	.9965	1.0065	.9988	1.0061	1.0015	1.0005	1.0016	.9993	.9998							
4		.9976	.9960	1.0020	.9972	1.0037	.9986	1.0059	1.0020	1.0017	1.0025	.9991	1.0003							
5		.9991	.9963	1.0013	.9975	1.0032	.9985	1.0074	1.0018	1.0005	1.0017	.9994	.9998							
6		.9966	.9973	1.0014	.9961	1.0010	.9974	1.0043	1.0017	1.0017	1.0020	.9997	1.0000							
7		.9956	.9977	1.0022	.9972	1.0012	.9982	1.0063	1.0007	.9998	1.0007	.9984	.9988							
8		.9974	.9981	1.0011	.9967	1.0007	.9974	1.0065	1.0042	1.0002	1.0008	1.0008	.9991							
9		.9981	.9965	1.0018	.9974	1.0014	.9988	1.0078	1.0019	1.0002	1.0002	.9999	1.0002							
10		.9997	.9948	1.0022	.9973	1.0008	.9988	1.0061	1.0019	1.0002	1.0016	.9993	.9996							
11		.9978	.9962	1.0021	.9976	1.0011	.9987	1.0053	1.0041	1.0000	1.0016	.9993	.9999							
12		.9986	.9968	1.0021	.9976	1.0005	.9986	1.0049	1.0015	1.0010	1.0019	.9990	.9999							
13		.9991	.9931	1.0015	.9970	1.0000	.9989	1.0054	1.0072	.9996	1.0016	.9993	.9994							
14		.9992	.9955	1.0026	.9981	1.0001	.9990	1.0055	1.0111	.9995	1.0010	.9998	.9993							
15		.9975	.9960	1.0025	.9974	1.0002	.9989	1.0079	1.0017	1.0009	1.0023	1.0000	.9997							
16		1.0018	.9947	1.0017	.9972	.9990	.9984	1.0072	1.0016	1.0013	1.0016	1.0005	.9998							
17		1.0003	.9954	.9818	.9988	1.0014	1.0003	1.0060	1.0094	1.0007	1.0004	.9993	.9998							
18		.9961	.9935	1.0013	.9968	.9992	.9983	1.0067	1.0101	1.0024	1.0017	1.0022	1.0011							
19		.9989	.9941	1.0017	.9971	.9995	.9980	1.0047	1.0171	1.0009	1.0014	.9991	.9987							
20		1.0001	.9930	1.0008	.9972	.9995	.9991	1.0064	1.0121	1.0009	1.0008	.9997	.9989							
21		.9982	.9956	1.0008	.9973	1.0013	.9986	1.0062	1.0068	1.0014	1.0006	1.0014	.9996							
MEAN		.0017	.0017	.0044	.0006	.0017	.0006	.0011	.0058	.0005	.0007	.0006	.0007							
S.D.																				

20	23	24	MEAN	S.D.
883.0	881.1	882.0	883.14	2.449
882.0	881.3	882.0	883.05	2.857
883.0	881.3	882.0	883.60	2.421
882.0	881.2	881.5	882.83	2.515
882.0	881.4	882.0	883.50	2.604
882.0	881.3	882.0	883.23	1.932
883.0	881.6	882.0	884.42	3.824
883.0	881.8	882.0	884.76	2.455
883.0	881.6	882.0	884.69	3.565
883.0	882.2	882.5	884.08	2.391
884.0	882.3	883.0	884.62	2.380
883.0	882.2	882.5	884.36	2.252
885.0	883.1	884.0	885.62	2.651
885.0	883.5	884.0	886.14	3.500
885.0	884.5	885.0	885.97	2.513
885.0	884.8	885.0	886.59	2.375
886.0	884.5	885.5	887.66	3.198
887.0	885.6	886.5	887.06	5.226
888.0	887.1	887.5	889.77	4.669
888.0	887.9	888.0	890.26	3.718
889.0	888.2	888.0	890.21	2.825
.9998	.9977	.9987		
.9988	.9980	.9988		
.9993	.9974	.9982		
.9991	.9982	.9985		
.9983	.9976	.9983		
.9986	.9978	.9986		
.9984	.9968	.9973		
.9986	.9972	.9974		
.9981	.9965	.9970		
.9988	.9979	.9982		
.9993	.9974	.9982		
.9985	.9976	.9979		
.9993	.9971	.9982		
.9987	.9970	.9976		
.9989	.9983	.9989		
.9982	.9980	.9982		
.9981	.9964	.9976		
.9999	.9984	.9994		
.9980	.9970	.9974		
.9975	.9973	.9975		
.9986	.9977	.9975		
.9987	.9975	.9981		
.0006	.0005	.0006		

TABLE 3-21

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 21: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	10:21:00	906.5	906.0	907.9	904.7	911.3	907.1		911.0	915.0	907.9	907.4	907.0	907.0	907.3
2	10:21:30	907.5	906.0	909.6	906.4	912.8	908.4		914.0	910.0	909.9	909.1	909.0	908.0	908.5
3	10:22:00	909.4	905.0	910.5	906.4	912.0	908.0		913.0	915.0	909.0	908.5	910.0	908.0	909.2
4	10:22:30	911.4	905.0	911.4	906.4	913.5	909.3		912.0	919.0	910.7	909.7	911.0	908.5	909.2
5	10:23:00	908.5	907.0	911.4	906.4	912.8	909.8		912.0	910.0	910.7	909.6	911.0	909.0	908.9
6	10:23:30	909.4	907.0	911.4	907.2	915.1	910.2		914.0	910.0	911.4	911.0	911.0	910.5	909.5
7	10:24:00	909.4	905.0	911.4	907.2	912.8	909.3		913.0	919.0	911.5	910.9	912.0	910.0	909.7
8	10:24:30	910.4	905.0	912.2	908.1	913.5	909.4		915.0	915.0	911.6	910.9	912.0	910.0	909.9
9	10:25:00	910.4	906.0	914.0	908.9	914.3	910.9		914.0	915.0	912.4	912.7	912.0	911.0	910.5
10	10:25:30	911.4	908.0	914.0	909.8	915.1	911.6		914.0	924.0	913.4	912.5	913.0	911.0	911.3
11	10:26:00	911.4	908.0	914.9	910.6	916.6	912.8		916.0	928.0	914.2	915.3	914.0	914.0	912.3
12	10:26:30	912.4	907.0	914.9	911.4	915.1	912.9		917.0	915.0	914.6	914.0	915.0	914.0	912.8
13	10:27:00	912.4	910.0	915.7	911.4	915.8	914.3		917.0	919.0	915.2	913.8	915.0	914.0	913.3
14	10:27:30	913.4	909.0	915.7	912.3	918.8	914.5		919.0	928.0	915.7	914.3	916.0	914.0	913.9
15	10:28:00	921.3	911.0	916.6	912.3	918.1	913.8		917.0	924.0	915.7	915.2	916.0	915.0	914.2
16	10:28:30	914.4	909.0	916.4	913.1	918.1	914.5		919.0	915.0	916.4	915.4	916.0	916.0	914.9
17	10:29:00	914.4	911.0	917.4	912.7	917.3	914.7		918.0	932.0	916.2	915.4	916.0	915.0	914.6
18	10:29:30	914.4	912.0	917.4	913.1	918.1	915.1		918.0	932.0	916.9	916.3	917.0	916.0	915.3
19	10:30:00	916.4	918.0	919.2	914.8	918.1	916.4		920.0	932.0	917.5	918.3	918.0	917.0	916.4
20	10:30:30	915.4	916.0	918.3	914.8	917.3	915.3		920.0	928.0	917.3	916.2	918.0	917.0	915.9
21	10:31:00	916.4	915.0	919.2	914.8	918.1	916.6		920.0	937.0	917.6	918.1	918.0	918.0	916.5
1		.9985	.9979	1.0000	.9965	1.0038	.9991		1.0034	1.0078	1.0000	.9995	.9990	.9990	.9994
2		.9984	.9968	1.0007	.9972	1.0042	.9934		1.0056	1.0012	1.0011	1.0002	1.0001	.9990	.9995
3		1.0001	.9952	1.0013	.9968	1.0039	.9985		1.0040	1.0062	.9996	.9991	1.0007	.9985	.9999
4		1.0012	.9942	1.0012	.9957	1.0035	.9989		1.0019	1.0096	1.0004	.9993	1.0008	.9980	.9988
5		.9987	.9971	1.0019	.9964	1.0034	1.0001		1.0025	1.0004	1.0011	.9999	1.0014	.9993	.9991
6		.9989	.9962	1.0011	.9964	1.0031	.9997		1.0039	.9995	1.0011	1.0006	1.0006	1.0001	.9990
7		.9986	.9938	1.0008	.9962	1.0024	.9985		1.0026	1.0092	1.0009	1.0003	1.0015	.9993	.9990
8		.9993	.9934	1.0013	.9968	1.0027	.9984		1.0043	1.0087	1.0006	.9998	1.0010	.9988	.9987
9		.9988	.9940	1.0028	.9972	1.0031	.9934		1.0028	1.0039	1.0010	1.0013	1.0006	.9995	.9989
10		.9985	.9948	1.0013	.9967	1.0025	.9987		1.0013	1.0123	1.0007	.9997	1.0002	.9981	.9984
11		.9970	.9933	1.0008	.9961	1.0027	.9985		1.0020	1.0152	1.0001	1.0013	.9998	.9998	.9980
12		.9989	.9930	1.0016	.9978	1.0018	.9994		1.0039	1.0017	1.0013	1.0006	1.0017	1.0006	.9993
13		.9980	.9954	1.0016	.9969	1.0017	1.0001		1.0030	1.0052	1.0011	.9995	1.0009	.9998	.9990
14		.9978	.9930	1.0004	.9966	1.0017	.9990		1.0040	1.0138	1.0004	.9988	1.0007	.9985	.9984
15		1.0061	.9949	1.0010	.9963	1.0026	.9979		1.0014	1.0091	1.0000	.9994	1.0003	.9992	.9983
16		.9992	.9933	1.0016	.9977	1.0032	.9993		1.0042	.9998	1.0013	1.0002	1.0009	1.0009	.9997
17		.9980	.9943	1.0013	.9962	1.0012	.9984		1.0020	1.0172	1.0000	.9991	.9998	.9987	.9983
18		.9975	.9949	1.0008	.9961	1.0015	.9982		1.0014	1.0167	1.0002	.9996	1.0003	.9992	.9985
19		.9981	.9998	1.0011	.9964	.9999	.9981		1.0020	1.0151	.9993	1.0002	.9998	.9987	.9981
20		.9980	.9986	1.0011	.9973	1.0001	.9979		1.0030	1.0117	1.0001	.9989	1.0008	.9997	.9985
21		.9979	.9964	1.0010	.9962	.9998	.9981		1.0018	1.0203	.9992	.9998	.9997	.9997	.9980
MEAN		.9989	.9952	1.0012	.9966	1.0025	.9988		1.0029	1.0068	1.0005	.9999	1.0005	.9993	.9988
S.D.		.0019	.0019	.0004	.0006	.0014	.0007		.0012	.0063	.0006	.0007	.0007	.0008	.0005

20	23	24	MEAN	S.D.
909.0	906.0	905.0	907.86	2.627
910.0	906.9	907.0	908.94	2.169
910.0	907.3	908.0	909.33	2.485
912.0	907.8	908.0	910.31	3.219
912.0	907.8	908.0	909.68	1.882
912.0	908.4	909.0	910.44	2.161
912.0	908.1	909.0	910.64	3.083
912.0	908.6	909.0	911.05	3.149
913.0	909.2	909.5	911.49	2.401
914.0	910.3	911.0	912.77	3.521
915.0	911.1	912.0	914.14	4.329
915.0	911.5	912.0	913.41	2.311
916.0	912.0	912.5	914.21	2.281
915.0	912.9	913.5	915.37	4.120
915.0	912.7	913.5	915.71	3.298
917.0	913.4	914.0	915.17	2.303
917.0	913.5	914.0	916.20	4.603
917.0	913.7	915.0	916.71	4.441
918.0	914.8	915.5	918.15	3.974
917.0	914.5	915.0	917.25	3.217
917.0	915.2	915.5	918.31	5.204
1.0012	.9979	.9968		
1.0012	.9978	.9979		
1.0007	.9978	.9985		
1.0019	.9972	.9975		
1.0025	.9979	.9982		
1.0017	.9978	.9984		
1.0015	.9972	.9982		
1.0010	.9973	.9977		
1.0017	.9975	.9978		
1.0013	.9973	.9981		
1.0009	.9967	.9977		
1.0017	.9979	.9985		
1.0020	.9976	.9981		
.9996	.9973	.9980		
.9992	.9967	.9976		
1.0020	.9981	.9987		
1.0009	.9971	.9976		
1.0003	.9967	.9981		
.9998	.9964	.9971		
.9997	.9970	.9975		
.9986	.9966	.9969		
1.0009	.9973	.9979		
.0010	.0005	.0005		

TABLE 3-22

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 22: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														
		1	3	5	7	8	9	10	11	12	13	14	17	18	19	
1	10:43:00	919.4	919.0	921.8	917.5	921.7	919.4		926.0	930.0	922.5	920.8	922.0	920.5	920.8	
2	10:43:30	919.4	922.0	922.7	919.2	922.5	920.5		926.1	930.0	923.7	923.6	923.0	923.0	921.8	
3	10:44:00	920.3	919.0	924.4	920.1	923.2	923.2		928.0	930.0	925.3	923.4	924.0	924.0	923.2	
4	10:44:30	922.3	921.0	925.3	920.9	924.7	922.9		929.0	925.0	925.6	924.7	925.0	924.0	924.4	
5	10:45:00	921.3	922.0	925.3	921.8	924.7	923.5		930.0	930.0	925.8	925.6	925.0	923.5	924.3	
6	10:45:30	924.3	919.0	926.2	921.8	925.5	923.6		929.0	930.0	926.1	925.8	925.0	923.0	924.8	
7	10:46:00	922.3	919.0	926.2	921.8	924.7	923.9		929.0	934.0	926.4	924.5	924.0	924.0	924.6	
8	10:46:30	923.3	919.0	927.1	922.6	926.2	923.7		929.0	938.0	926.4	925.7	926.0	924.0	924.6	
9	10:47:00	923.3	923.0	927.1	923.5	927.7	924.7		930.0	938.0	927.1	927.0	926.0	925.0	925.8	
10	10:47:30	923.3	925.0	927.9	923.5	926.2	924.9		930.0	938.0	927.4	927.0	927.0	925.0	925.6	
11	10:48:00	924.3	923.0	927.9	923.5	926.2	925.1		931.0	938.0	927.5	927.3	927.0	925.5	926.5	
12	10:48:30	925.3	927.0	927.9	924.3	927.0	924.8		931.0	934.0	927.8	927.1	927.0	927.0	926.6	
13	10:49:00	931.2	923.0	928.8	925.2	928.5	926.4		932.0	934.0	929.0	929.4	928.0	927.0	927.7	
14	10:49:30	926.3	922.0	929.7	925.6	929.3	927.6		931.0	934.0	929.6	928.1	929.0	927.0	928.0	
15	10:50:00	927.3	925.0	929.7	926.0	930.0	927.6		933.0	943.0	930.0	929.4	929.0	928.5	928.4	
16	10:50:30	929.2	925.0	930.5	926.9	931.5	927.8		934.0	943.0	930.9	929.8	930.0	929.0	929.9	
17	10:51:00	928.3	925.0	931.4	927.7	931.5	929.3		934.0	943.0	931.5	931.2	931.0	930.0	930.3	
18	10:51:30	930.2	924.0	932.3	928.6	933.0	930.3		936.0	943.0	932.6	931.9	932.0	930.0	931.1	
19	10:52:00	930.2	926.0	932.3	929.0	934.5	930.5		935.0	938.0	933.5	932.2	933.0	930.0	931.4	
20	10:52:30	930.2	926.0	932.3	928.6	933.0	930.5		936.0	938.0	933.1	932.1	932.0	932.0	931.5	
21	10:53:00	930.2	929.0	932.3	928.6	932.3	930.4		935.0	934.0	932.8	931.2	932.0	931.0	931.1	
1		.9980	.9975	1.0006	.9959	1.0005	.9980		1.0051	1.0095	1.0013	.9995	1.0008	.9992	.9995	
2		.9967	.9995	1.0003	.9965	1.0001	.9979		1.0039	1.0082	1.0014	1.0013	1.0006	1.0004	.9993	
3		.9967	.9953	1.0011	.9965	.9998	.9998		1.0050	1.0072	1.0021	1.0000	1.0007	1.0007	.9998	
4		.9982	.9968	1.0015	.9967	1.0008	.9989		1.0055	1.0011	1.0018	1.0008	1.0011	1.0001	1.0005	
5		.9966	.9973	1.0009	.9971	1.0002	.9989		1.0060	1.0060	1.0014	1.0012	1.0006	.9989	.9998	
6		.9996	.9938	1.0016	.9969	1.0009	.9988		1.0047	1.0057	1.0015	1.0012	1.0003	.9982	1.0001	
7		.9974	.9938	1.0016	.9968	1.0000	.9991		1.0046	1.0100	1.0020	.9997	1.0014	.9982	.9999	
8		.9976	.9930	1.0017	.9969	1.0008	.9981		1.0038	1.0135	1.0010	1.0002	1.0006	.9984	.9997	
9		.9967	.9964	1.0008	.9970	1.0015	.9982		1.0040	1.0126	1.0008	1.0007	.9996	.9986	.9994	
10		.9968	.9986	1.0018	.9970	.9999	.9985		1.0040	1.0084	1.0012	1.0008	1.0008	.9986	.9993	
11		.9974	.9960	1.0013	.9966	.9995	.9983		1.0046	1.0122	1.0009	1.0007	1.0003	.9987	.9998	
12		.9982	1.0000	1.0010	.9971	1.0000	.9976		1.0043	1.0075	1.0008	1.0001	1.0000	1.0000	.9996	
13		1.0034	.9946	1.0009	.9970	1.0005	.9983		1.0043	1.0065	1.0011	1.0015	1.0000	.9989	.9997	
14		.9982	.9936	1.0019	.9974	1.0014	.9996		1.0033	1.0065	1.0018	1.0001	1.0011	.9990	1.0000	
15		.9979	.9954	1.0004	.9965	1.0008	.9982		1.0040	1.0148	1.0008	1.0001	.9997	.9992	.9998	
16		.9991	.9945	1.0005	.9966	1.0015	.9975		1.0042	1.0139	1.0009	.9997	.9999	.9988	.9996	
17		.9974	.9939	1.0008	.9968	1.0009	.9985		1.0036	1.0132	1.0009	1.0006	1.0003	.9993	.9996	
18		.9986	.9919	1.0008	.9969	1.0016	.9987		1.0048	1.0123	1.0012	1.0004	1.0005	.9984	.9996	
19		.9985	.9940	1.0002	.9972	1.0031	.9988		1.0037	1.0069	1.0021	1.0007	1.0015	.9983	.9998	
20		.9985	.9940	1.0008	.9968	1.0015	.9989		1.0048	1.0069	1.0017	1.0006	1.0005	1.0005	.9999	
21		.9989	.9974	1.0012	.9972	1.0012	.9991		1.0041	1.0030	1.0017	1.0000	1.0009	.9998	.9999	
MEAN		.9981	.9956	1.0011	.9968	1.0008	.9986		1.0044	1.0089	1.0014	1.0005	1.0005	.9992	.9997	
S.D.		.0015	.0022	.0005	.0003	.0008	.0006		.0007	.0037	.0004	.0006	.0005	.0008	.0003	

20	23	24	MEAN	S.D.
921.0	917.9	920.0	921.27	3.072
921.0	919.3	921.0	922.42	2.727
923.0	920.6	922.0	923.36	2.828
924.0	921.2	923.0	923.94	2.064
924.0	921.8	923.0	924.47	2.581
925.0	922.0	924.0	924.69	2.655
924.0	922.1	923.0	924.73	3.371
925.0	922.5	924.0	925.48	4.043
925.0	923.0	925.0	926.32	3.660
925.0	923.3	925.0	926.26	2.742
926.0	923.3	925.0	926.69	3.630
926.0	923.9	925.5	927.01	2.510
927.0	924.8	926.0	928.00	2.803
928.0	925.3	927.0	927.97	2.674
929.0	925.7	927.0	929.29	4.153
929.0	926.8	928.0	930.08	4.038
930.0	927.6	929.0	930.67	3.891
931.0	928.2	930.0	931.51	4.005
931.0	928.6	930.0	931.57	2.865
931.0	928.6	930.0	931.56	2.840
931.0	928.4	930.0	931.21	1.835
.9997	.9963	.9986		
.9985	.9966	.9985		
.9996	.9970	.9985		
1.0001	.9970	.9990		
.9995	.9971	.9984		
1.0003	.9971	.9992		
.9992	.9972	.9981		
.9995	.9968	.9984		
.9986	.9964	.9986		
.9986	.9968	.9986		
.9993	.9963	.9982		
.9989	.9966	.9984		
.9989	.9966	.9978		
1.0000	.9971	.9990		
.9997	.9961	.9975		
.9988	.9965	.9978		
.9993	.9967	.9982		
.9994	.9964	.9984		
.9994	.9963	.9983		
.9994	.9968	.9983		
.9998	.9970	.9987		
.9994	.9967	.9984		
.0005	.0003	.0004		

TABLE 3-23

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
RUN 23: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	11:05:00	926.1	926.0	930.0	926.3	930.3	927.7		935.0	942.0	932.0	930.5	930.0	928.0	929.2			
2	11:05:30	929.1	928.0	930.8	927.2	931.0	928.8		935.0	937.0	932.6	929.9	931.5	928.0	929.8			
3	11:06:00	929.1	931.0	932.6	928.0	931.0	930.2		936.0	942.0	933.8	931.4	932.0	930.0	930.9			
4	11:06:30	930.0	933.0	934.3	929.7	931.8	931.3		938.0	946.0	934.6	932.7	933.0	932.5	932.5			
5	11:07:00	932.0	935.0	933.4	929.7	934.0	931.5		937.0	946.0	935.2	932.8	934.0	933.0	932.8			
6	11:07:30	931.0	933.0	933.4	930.6	933.3	932.3		938.0	942.0	936.0	933.1	935.0	933.0	933.9			
7	11:08:00	934.0	934.0	935.2	932.3	934.8	933.6		938.0	950.0	936.8	935.3	936.0	935.0	934.6			
8	11:08:30	934.0	934.0	936.1	932.3	934.8	933.6		940.0	946.0	937.2	935.6	936.0	934.0	935.0			
9	11:09:00	934.0	932.0	936.1	932.3	935.5	933.9		940.0	950.0	937.2	935.1	936.0	933.0	934.3			
10	11:09:30	934.0	932.0	936.1	933.1	936.3	934.0		939.0	937.0	938.1	935.9	937.0	933.0	935.3			
11	11:10:00	935.0	935.0	937.8	933.1	936.3	934.5		939.0	942.0	938.4	937.0	937.0	935.0	935.4			
12	11:10:30	936.0	934.0	937.8	934.0	936.3	935.3		940.0	946.0	938.6	937.1	937.0	935.0	935.7			
13	11:11:00	935.0	932.0	936.1	932.3	937.0	934.7		940.0	950.0	938.1	935.2	937.0	934.0	934.9			
14	11:11:30	933.0	933.0	936.1	932.3	935.5	933.9		939.0	942.0	937.1	934.5	936.0	934.0	934.2			
15	11:12:00	935.0	937.0	936.1	932.3	935.5	934.0		940.0	950.0	937.1	935.7	936.0	935.0	934.6			
16	11:12:30	936.0	932.0	936.1	932.3	935.5	934.0		940.0	950.0	937.7	935.9	936.0	935.0	934.5			
17	11:13:00	935.0	936.0	936.9	933.1	937.0	935.0		941.0	946.0	938.5	936.2	937.5	936.0	935.6			
18	11:13:30	936.0	935.0	936.9	934.0	937.0	935.3		942.0	942.0	938.9	937.1	937.5	936.0	935.7			
19	11:14:00	935.0	935.0	936.1	932.7	936.3	934.2		940.0	946.0	937.7	934.9	936.0	934.0	934.6			
20	11:14:30	933.0	933.0	935.2	931.4	934.8	933.2		939.0	950.0	936.8	934.4	935.5	933.0	933.7			
21	11:15:00	929.1	932.0	933.4	930.6	934.0	932.4		938.0	946.0	935.7	933.4	935.0					
1		.9960	.9959	1.0002	.9962	1.0005	.9977		1.0055	1.0131	1.0023	1.0007	1.0002	.9980	.9993			
2		.9987	.9975	1.0005	.9967	1.0008	.9984		1.0051	1.0072	1.0025	.9996	1.0013	.9975	.9995			
3		.9972	.9992	1.0010	.9960	.9992	.9984		1.0046	1.0111	1.0023	.9997	1.0003	.9982	.9991			
4		.9966	.9998	1.0012	.9963	.9985	.9980		1.0052	1.0137	1.0015	.9995	.9998	.9993	.9987			
5		.9980	1.0012	.9995	.9956	1.0002	.9975		1.0034	1.0130	1.0015	.9989	1.0002	.9991	.9989			
6		.9970	.9991	.9996	.9966	.9995	.9984		1.0045	1.0088	1.0024	.9993	1.0013	.9991	1.0001			
7		.9982	1.0004	.9995	.9964	.9982	.9980		1.0025	1.0153	1.0012	.9996	1.0004	.9993	.9989			
8		.9984	.9984	1.0006	.9966	.9992	.9979		1.0048	1.0112	1.0018	1.0001	1.0005	.9984	.9994			
9		.9982	.9961	1.0005	.9964	.9998	.9981		1.0047	1.0153	1.0017	.9994	1.0004	.9972	.9986			
10		.9987	.9966	1.0010	.9978	1.0012	.9987		1.0041	1.0019	1.0031	1.0008	1.0019	.9977	1.0001			
11		.9988	.9988	1.0018	.9968	1.0002	.9983		1.0031	1.0063	1.0024	1.0009	1.0009	.9988	.9992			
12		.9992	.9971	1.0011	.9971	.9995	.9985		1.0035	1.0099	1.0020	1.0004	1.0003	.9981	.9989			
13		.9987	.9955	.9999	.9958	1.0009	.9984		1.0041	1.0148	1.0020	.9989	1.0009	.9977	.9986			
14		.9978	.9978	1.0012	.9971	1.0005	.9988		1.0043	1.0075	1.0022	.9995	1.0011	.9989	.9991			
15		.9987	1.0009	.9999	.9958	.9993	.9977		1.0041	1.0147	1.0010	.9995	.9998	.9987	.9983			
16		1.0000	.9958	1.0002	.9961	.9995	.9979		1.0043	1.0150	1.0019	.9999	1.0000	.9990	.9984			
17		.9982	.9992	1.0002	.9961	1.0003	.9982		1.0046	1.0099	1.0019	.9994	1.0008	.9992	.9988			
18		.9992	.9981	1.0002	.9971	1.0003	.9985		1.0056	1.0056	1.0023	1.0004	1.0008	.9992	.9989			
19		.9991	.9991	1.0002	.9966	1.0005	.9982		1.0044	1.0108	1.0020	.9990	1.0020	.9980	.9986			
20		.9979	.9979	1.0002	.9962	.9998	.9981		1.0043	1.0161	1.0020	.9994	1.0006	.9979	.9986			
21		.9949	.9980	.9995	.9964	1.0002	.9985		1.0045	1.0130	1.0020	.9995	1.0012		.9988			
MEAN		.9981	.9982	1.0004	.9965	.9999	.9982		1.0043	1.0112	1.0020	.9997	1.0006	.9985	.9990			
S.D.		.0012	.0017	.0006	.0005	.0008	.0003		.0008	.0038	.0005	.0006	.0006	.0007	.0005			



20	23	24	MEAN	S.D.
930.0	926.6	928.0	929.84	4.039
931.0	927.0	928.0	930.29	2.774
931.0	928.2	930.0	931.70	3.394
932.0	929.2	931.0	933.19	4.022
933.0	930.0	932.0	933.84	3.733
934.0	930.1	932.0	933.79	2.951
935.0	931.4	933.0	935.65	4.147
935.0	931.7	933.0	935.52	3.428
935.0	931.9	934.0	935.64	4.353
936.0	932.1	934.0	935.18	2.096
936.0	932.6	934.0	936.13	2.386
937.0	933.1	935.0	936.74	3.049
936.0	932.7	934.0	936.19	4.250
935.0	931.6	933.0	935.01	2.656
935.0	931.9	934.0	936.20	4.142
935.0	931.8	933.5	935.96	4.297
937.0	932.9	934.0	936.73	3.183
936.0	933.6	935.0	936.75	2.436
935.0	932.4	934.0	935.87	3.266
933.0	931.1	932.5	934.97	4.474
933.0	930.3	932.0	933.84	4.024
1.0002	.9963	.9980		
1.0008	.9965	.9975		
.9992	.9962	.9982		
.9987	.9957	.9976		
.9991	.9959	.9980		
1.0002	.9960	.9981		
.9993	.9955	.9972		
.9994	.9959	.9973		
.9993	.9960	.9982		
1.0009	.9967	.9987		
.9999	.9962	.9977		
1.0003	.9961	.9981		
.9998	.9963	.9977		
1.0000	.9964	.9978		
.9987	.9954	.9977		
.9990	.9956	.9974		
1.0003	.9959	.9971		
.9992	.9966	.9981		
.9991	.9963	.9980		
.9979	.9959	.9974		
.9991	.9962	.9980		
.9995	.9961	.9978		
.0007	.0004	.0006		

DATE 071501

TABLE 3-24

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 24: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	11:26:00	936.2	937.0	940.6	936.6	941.1	938.4		944.0	949.0	941.7	939.6	941.0	939.0	939.8			
2	11:26:30	937.1	935.0	939.7	937.4	941.1	938.5		945.0	936.0	941.8	940.2	941.0	939.0	940.1			
3	11:27:00	939.1	936.0	940.6	938.3	941.9	939.3		946.0	953.0	942.2	940.3	941.5	939.0	940.3			
4	11:27:30	939.1	939.0	940.6	937.8	941.9	939.1		945.0	949.0	942.3	941.4	941.5	940.0	940.6			
5	11:28:00	940.1	942.0	941.4	937.8	942.7	940.0		946.0	953.0	942.5	941.9	941.5	941.0	940.7			
6	11:28:30	939.1	938.0	942.3	938.3	941.1	939.5		946.0	944.0	942.5	941.6	941.5	941.0	941.1			
7	11:29:00	940.1	940.0	942.3	938.7	941.9	940.2		946.0	953.0	942.6	942.0	941.5	940.0	941.2			
8	11:29:30	940.1	937.0	942.3	938.3	942.7	940.0		944.0	944.0	942.3	942.2	942.0	940.0	941.6			
9	11:30:00	939.1	939.0	942.3	938.3	942.7	940.2		944.0	949.0	942.3	941.8	942.0	940.0	941.4			
10	11:30:30	940.1	939.0	942.3	938.3	942.7	940.2		945.0	953.0	943.1	941.6	942.0	941.0	941.4			
11	11:31:00	941.1	934.0	942.3	938.3	942.7	940.3		945.0	953.0	943.0	941.8	942.0	940.0	941.1			
12	11:31:30	941.1	933.0	941.4	939.1	941.1	939.2		943.0	944.0	943.0	940.7	942.0	940.0	941.2			
13	11:32:00	940.1	934.0	942.3	939.1	941.9	940.2		944.0	953.0	943.2	941.3	942.5	940.0	941.8			
14	11:32:30	942.1	938.0	942.3	939.1	941.9	940.3		945.0	953.0	943.4	940.9	943.0	940.0	941.4			
15	11:33:00	941.1	939.0	942.3	939.1	941.9	940.0		945.0	954.0	942.9	941.5	942.5	942.0	941.3			
16	11:33:30	941.1	939.0	942.3	939.1	941.1	939.8		946.0	953.0	942.5	941.5	942.0	942.0	941.2			
17	11:34:00	940.1	935.0	940.6	938.3	940.4	939.2		946.0	953.0	941.9	941.2	941.0	940.0	940.5			
18	11:34:30	940.1	937.0	940.6	937.4	940.4	939.7		944.0	953.0	941.5	940.7	941.0	940.0	940.0			
19	11:35:00	935.2	937.0	940.6	937.4	941.1	939.7		943.0	953.0	941.5	940.1	941.0	940.0	939.3			
20	11:35:30	938.1	937.0	940.6	937.0	940.4	938.8		945.0	953.0	941.0	939.2	940.0	940.0	939.7			
21	11:36:00	940.1	939.0	940.6	937.4	940.4	939.7		944.0	953.0	941.4	939.7	940.5	939.5	939.5			
1		9960	9968	1.0006	9964	1.0012	9983		1.0043	1.0096	1.0018	9996	1.0011	9989	9998			
2		9977	9954	1.0004	9980	1.0019	9992		1.0061	9965	1.0027	1.0010	1.0018	9997	1.0009			
3		9982	9949	9998	9974	1.0012	9984		1.0034	1.0130	1.0015	9995	1.0008	9981	9995			
4		9981	9980	9997	9967	1.0011	9981		1.0044	1.0086	1.0015	1.0005	1.0007	9991	9995			
5		9982	1.0002	9995	9957	1.0009	9981		1.0044	1.0119	1.0007	1.0001	9997	9991	9988			
6		9981	9969	1.0015	9973	1.0002	9985		1.0054	1.0033	1.0017	1.0008	1.0007	1.0001	1.0002			
7		9982	9981	1.0006	9968	1.0002	9984		1.0045	1.0119	1.0009	1.0003	9997	9981	9994			
8		9989	9956	1.0022	9970	1.0017	9988		1.0030	1.0030	1.0012	1.0011	1.0009	9988	1.0005			
9		9975	9974	1.0009	9967	1.0013	9985		1.0027	1.0080	1.0009	1.0004	1.0006	9985	1.0000			
10		9981	9970	1.0005	9962	1.0009	9983		1.0034	1.0118	1.0013	9997	1.0002	9991	9995			
11		9997	9921	1.0010	9967	1.0014	9988		1.0038	1.0123	1.0017	9993	1.0006	9985	9997			
12		1.0005	9919	1.0008	9984	1.0005	9985		1.0025	1.0036	1.0025	1.0013	1.0015	9994	1.0006			
13		9986	9921	1.0009	9975	1.0005	9987		1.0027	1.0123	1.0019	9999	1.0011	9985	9996			
14		1.0002	9958	1.0004	9970	1.0000	9983		1.0033	1.0118	1.0016	9999	1.0012	9980	9995			
15		9990	9979	1.0003	9969	9999	9979		1.0032	1.0127	1.0009	9994	1.0005	1.0000	9992			
16		9992	9970	1.0005	9971	9992	9978		1.0044	1.0118	1.0007	9996	1.0002	1.0002	9993			
17		9992	9938	9998	9973	9996	9983		1.0055	1.0130	1.0012	1.0004	1.0002	9991	9997			
18		9997	9964	1.0002	9968	1.0000	9993		1.0039	1.0092	1.0011	1.0003	1.0007	9996	9996			
19		9947	9966	1.0005	9970	1.0010	9995		1.0030	1.0136	1.0014	9999	1.0009	9998	9991			
20		9978	9966	1.0004	9966	1.0002	9985		1.0051	1.0136	1.0008	9989	9998	9998	9995			
21		9995	9983	1.0000	9966	9998	9991		1.0037	1.0132	1.0009	9991	9999	9989	9989			
	MEAN	9984	9961	1.0005	9970	1.0006	9985		1.0039	1.0098	1.0014	1.0000	1.0006	9991	9996			
	S. D.	.0013	.0022	.0006	.0006	.0007	.0004		.0010	.0045	.0015	.0007	.0006	.0007	.0005			

	20	23	24	MEAN	S.D.
	939.0	937.9	939.0	939.99	3.137
	940.0	937.6	939.0	939.28	2.429
	940.0	937.9	939.0	940.77	3.770
	940.0	938.1	939.0	940.89	2.818
	940.0	938.4	940.0	941.82	3.515
	940.0	938.5	939.5	940.87	2.160
	940.0	939.0	939.5	941.75	3.487
	942.0	938.9	940.0	941.14	2.040
	942.0	939.1	940.0	941.44	2.589
	941.0	938.8	940.0	941.84	3.442
	940.0	938.9	940.0	941.40	3.927
	941.0	938.8	940.0	940.61	2.504
	941.0	939.1	940.0	941.42	3.826
	941.0	939.2	940.0	941.91	3.451
	940.0	938.8	940.0	942.02	3.542
	940.0	939.0	940.0	941.85	3.452
	938.0	938.7	939.0	940.81	3.972
	938.0	937.7	939.0	940.37	2.885
	938.0	937.4	938.5	940.17	3.956
	938.0	937.5	938.0	940.21	3.940
	939.0	937.2	938.0	940.56	3.687
	.9989	.9978	.9989		
1.0008	.9982	.9982	.9997		
.9992	.9969	.9981	.9981		
.9991	.9970	.9980	.9980		
.9981	.9966	.9981	.9981		
.9991	.9975	.9985	.9985		
.9981	.9971	.9976	.9976		
1.0009	.9976	.9988	.9988		
1.0006	.9975	.9985	.9985		
.9991	.9968	.9980	.9980		
.9985	.9973	.9985	.9985		
1.0004	.9981	.9994	.9994		
.9996	.9975	.9985	.9985		
.9990	.9971	.9980	.9980		
.9979	.9966	.9979	.9979		
.9980	.9970	.9980	.9980		
.9970	.9978	.9981	.9981		
.9975	.9972	.9985	.9985		
.9977	.9978	.9982	.9982		
.9977	.9971	.9977	.9977		
.9983	.9964	.9973	.9973		
.9988	.9972	.9983	.9983		
.0011	.0005	.0006	.0006		

TABLE 3-25

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 25: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER										18	19
		1	3	5	7	8	9	10	11	12	13		
1	11:57:00	944.3		946.1	940.3	947.8	943.4			944.5		944.0	944.7
2	11:57:30	943.3		946.1	941.1	948.5	943.2			943.6		943.5	944.8
3	11:58:00	943.3		946.1	940.3	947.0	943.1			943.7		943.0	944.3
4	11:58:30	944.3		946.1	939.9	945.5	943.2			943.5		943.0	943.6
5	11:59:00	942.3		945.3	939.4	944.0	942.1			943.2		943.0	943.2
6	11:59:30	941.3		944.4	939.4	944.0	941.7			942.3		942.0	942.6
7	12:00:00	941.3		945.3	940.3	944.0	941.9			942.2		942.0	943.1
8	12:00:30	942.3		945.3	940.3	944.7	942.1			941.7		943.0	942.8
9	12:01:00	943.3		945.3	940.3	945.5	942.1			942.9		943.0	943.1
10	12:01:30	943.3		947.0	941.1	944.3	943.4			943.6		944.0	943.9
11	12:02:00	943.3		946.1	941.5	944.7	943.4			943.7		945.0	944.5
12	12:02:30	944.3		947.0	942.0	946.3	943.8			943.7		943.5	944.3
13	12:03:00	944.3		947.0	942.0	947.8	944.0			944.1		946.0	945.0
14	12:03:30	945.3		947.9	942.0	948.5	944.9			945.2		946.0	945.6
15	12:04:00	944.3		947.9	943.7	948.5	945.6			945.9		946.1	946.1
16	12:04:30	945.3		947.9	942.8	946.3	945.0			946.0		947.0	945.2
17	12:05:00	944.3		947.0	942.8	946.3	944.7			945.8		946.5	945.9
18	12:05:30	943.3		947.0	942.4	944.7	944.2			947.0		945.5	945.0
19	12:06:00	944.3		946.1	942.0	944.0	944.3			944.1		945.0	944.6
20	12:06:30	944.3		947.0	942.0	943.0	943.2			945.1		945.5	944.5
21	12:07:00	944.3		945.3	942.0	943.2	943.3			945.0		946.0	944.0
1		1.0002		1.0021	.9940	1.0039	.9993			1.0005		.9999	1.0007
2		.9993		1.0023	.9970	1.0048	.9992			.9996		.9995	1.0009
3		.9996		1.0026	.9964	1.0035	.9994			1.0000		.9993	1.0007
4		1.0010		1.0029	.9963	1.0023	.9998			1.0002		.9996	1.0003
5		.9996		1.0028	.9966	1.0014	.9994			1.0006		1.0004	1.0006
6		.9992		1.0025	.9971	1.0020	.9996			1.0002		.9999	1.0005
7		.9987		1.0030	.9977	1.0016	.9994			.9997		.9995	1.0006
8		.9997		1.0029	.9976	1.0022	.9995			.9990		1.0004	1.0002
9		1.0004		1.0025	.9972	1.0027	.9991			1.0000		1.0001	1.0002
10		.9995		1.0034	.9972	1.0027	.9996			.9998		1.0002	1.0001
11		.9996		1.0025	.9977	1.0011	.9997			1.0000		1.0014	1.0008
12		1.0001		1.0030	.9977	1.0023	.9996			.9995		.9993	1.0001
13		.9994		1.0023	.9978	1.0031	.9991			.9992		1.0012	1.0001
14		.9990		1.0026	.9972	1.0032	.9994			.9997		1.0006	1.0002
15		.9984		1.0022	.9978	1.0029	.9998			1.0001		1.0002	1.0003
16		.9987		1.0025	.9971	1.0008	.9995			1.0005		1.0016	.9997
17		.9989		1.0017	.9973	1.0010	.9993			1.0005		1.0012	1.0006
18		.9986		1.0025	.9976	1.0000	.9995			1.0025		1.0009	1.0004
19		1.0000		1.0019	.9976	.9997	1.0000			.9998		1.0007	1.0003
20		1.0003		1.0031	.9978	.9989	.9991			1.0015		1.0015	1.0005
21		1.0006		1.0016	.9981	.9994	.9995			1.0013		1.0024	1.0003
MEAN		.9996		1.0025	.9973	1.0019	.9995			1.0002		1.0005	1.0004
S.D.		.0007		.0005	.0006	.0015	.0002			.0008		.0008	.0003

	20	23	24	MEAN	S.D.
	945.0	941.7	943.0	944.07	2.024
	945.0	941.4	943.0	943.95	2.097
	945.0	941.4	943.0	943.65	1.924
	944.0	941.2	942.5	943.35	1.760
	944.0	940.5	942.0	942.64	1.656
	944.0	939.8	941.5	942.09	1.629
	945.0	940.4	942.0	942.50	1.603
	944.0	940.4	942.0	942.60	1.597
	944.0	940.6	942.0	942.92	1.656
	945.0	941.8	943.0	943.70	1.849
	944.0	941.6	943.0	943.71	1.385
	946.0	942.0	943.0	944.17	1.659
	946.0	942.5	944.0	944.86	1.674
	946.0	942.0	945.0	945.45	1.748
	947.0	943.3	945.5	945.80	1.622
	948.0	943.2	945.0	945.52	1.725
	948.0	942.7	945.0	945.36	1.663
	946.0	942.2	944.0	944.64	1.650
	947.0	941.9	944.0	944.30	1.496
	945.0	941.5	943.0	944.05	1.665
	944.0	941.2	943.0	943.75	1.417
	1.0010	.9975	.9989		
	1.0011	.9973	.9990		
	1.0014	.9976	.9993		
	1.0007	.9977	.9991		
	1.0014	.9977	.9993		
	1.0020	.9976	.9994		
	1.0027	.9978	.9995		
	1.0015	.9977	.9994		
	1.0011	.9975	.9990		
	1.0013	.9971	.9992		
	1.0003	.9978	.9992		
	1.0019	.9977	.9980		
	1.0012	.9975	.9991		
	1.0006	.9972	.9995		
	1.0013	.9974	.9997		
	1.0026	.9975	.9995		
	1.0020	.9972	.9996		
	1.0014	.9974	.9993		
	1.0029	.9975	.9997		
	1.0010	.9973	.9989		
	1.0003	.9973	.9992		
	1.0015	.9975	.9993		
	.0006	.0002	.0003		

TABLE 3-26

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 26: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	12:21:00	942.4		945.3	941.0	943.3	943.4				944.5			943.0	
2	12:21:30	941.4		945.3	941.0	943.3	943.3				944.6			944.0	
3	12:22:00	939.5		944.4	939.3	942.6	941.5				941.0			942.0	
4	12:22:30	937.5		940.9	938.5	940.3	940.5				941.2			941.0	
5	12:23:00	935.5		940.9	936.8	938.0	939.0				941.1			939.0	
6	12:23:30	938.5		941.0	937.6	940.3	940.8				941.5			940.0	
7	12:24:00	937.5		943.4	938.5	942.6	940.6				941.0			941.0	
8	12:24:30	936.5		942.7	938.1	942.6	940.3				941.1			940.0	
9	12:25:00	935.5		942.7	936.8	940.3	939.1				940.0			939.0	
10	12:25:30	932.6		940.9	936.0	940.3	938.6				939.3			938.0	
11	12:26:00	932.6		939.2	935.1	938.1	936.7				937.6			938.0	
12	12:26:30	934.5		937.5	933.4	938.8	934.8				937.0			937.0	
13	12:27:00	931.6		936.6	932.6	938.1	934.0				936.7			936.0	
14	12:27:30	929.6		935.7	933.4	938.1	935.1				937.2			936.0	
15	12:28:00	933.6		938.3	934.3	938.8	935.6				938.5			937.0	
16	12:28:30	928.6		937.5	935.1	939.6	936.8				937.6			937.0	
17	12:29:00	932.6		938.3	934.3	938.8	936.4				938.2			935.0	
18	12:29:30	937.5		938.3	934.7	938.8	935.9				937.8			937.0	
19	12:30:00	934.5		939.2	936.0	940.3	936.7				939.4			936.0	
20	12:30:30	935.5		941.0	936.0	940.3	937.8				938.9			937.0	
21	12:31:00	936.5		941.0	936.8	941.8	938.1				941.1			939.0	
1		.9994		1.0024	.9979	1.0003	1.0004				1.0016			1.0000	
2		.9982		1.0023	.9978	1.0002	1.0002				1.0016			1.0009	
3		.9980		1.0032	.9978	1.0013	1.0001				.9996			1.0007	
4		.9974		1.0010	.9985	1.0004	1.0006				1.0014			1.0011	
5		.9966		1.0023	.9980	1.0001	1.0003				1.0025			1.0003	
6		.9985		1.0020	.9975	1.0004	1.0009				1.0017			1.0001	
7		.9966		1.0031	.9977	1.0020	.9999				1.0012			1.0003	
8		.9943		1.0029	.9980	1.0028	1.0003				1.0012			1.0000	
9		.9961		1.0038	.9975	1.0012	1.0000				1.0009			.9999	
10		.9940		1.0029	.9976	1.0022	1.0004				1.0012			.9998	
11		.9956		1.0026	.9983	1.0015	1.0000				1.0009			1.0014	
12		.9985		1.0017	.9973	1.0031	.9988				1.0012			1.0012	
13		.9945		1.0019	.9976	1.0035	.9991				1.0020			1.0012	
14		.9962		1.0008	.9983	1.0033	1.0001				1.0024			1.0011	
15		.9973		1.0023	.9980	1.0029	.9994				1.0025			1.0009	
16		.9919		1.0014	.9989	1.0037	1.0007				1.0015			1.0009	
17		.9962		1.0022	.9980	1.0028	1.0002				1.0021			.9987	
18		1.0006		1.0015	.9976	1.0020	.9989				1.0009			1.0001	
19		.9972		1.0022	.9988	1.0034	.9996				1.0025			.9988	
20		.9974		1.0033	.9980	1.0026	.9999				1.0011			.9990	
21		.9974		1.0022	.9977	1.0030	.9991				1.0023			1.0000	
MEAN		.9969		1.0023	.9979	1.0020	1.0000				1.0015			1.0003	
S.D.		.0019		.0008	.0004	.0012	.0006				.0007			.0006	

20	23	24	MEAN	S.D.
943.0	941.2	943.0	943.01	1.308
943.0	941.3	944.0	943.12	1.466
942.0	939.5	942.0	941.38	1.610
940.0	938.3	941.0	939.92	1.330
940.0	937.0	939.0	938.71	1.805
941.0	937.6	940.0	939.91	1.524
942.0	938.7	940.5	940.68	1.948
941.0	937.7	940.0	940.00	2.041
941.0	937.0	940.0	939.14	2.368
941.0	936.5	939.0	938.22	2.596
938.0	934.9	937.0	936.72	1.975
936.0	934.0	936.0	935.90	1.714
936.0	931.9	935.0	934.85	2.230
937.0	932.7	935.0	934.98	2.516
936.0	933.7	935.5	936.13	1.960
938.0	934.4	937.0	936.16	3.024
938.0	933.9	936.5	936.20	2.156
938.0	934.1	937.0	936.91	1.551
938.0	934.4	936.5	937.10	2.048
940.0	935.0	937.5	937.90	2.096
941.0	936.0	938.5	938.98	2.145
1.0000	.9981	1.0000		
.9999	.9981	1.0009		
1.0007	.9980	1.0007		
1.0001	.9983	1.0011		
1.0014	.9982	1.0003		
1.0012	.9975	1.0001		
1.0014	.9979	.9998		
1.0011	.9976	1.0000		
1.0020	.9977	1.0009		
1.0030	.9982	1.0000		
1.0014	.9981	1.0003		
1.0001	.9980	1.0001		
1.0012	.9968	1.0002		
1.0022	.9976	1.0000		
.9999	.9974	.9993		
1.0020	.9981	1.0009		
1.0019	.9975	1.0003		
1.0012	.9970	1.0001		
1.0010	.9971	.9994		
1.0022	.9969	.9996		
1.0022	.9968	.9995		
1.0012	.9977	1.0002		
.0009	.0005	.0005		

TABLE 3-27

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 27: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	13:20:00	915.7		920.2	915.5	919.1	916.6					919.0		919.0				
2	13:20:30	916.6		920.2	916.4	920.6	917.8					920.1		920.0				
3	13:21:00	918.6		921.9	918.1	922.1	919.7					922.0		921.5				
4	13:21:30	920.6		922.7	918.9	923.6	920.3					922.7		922.5				
5	13:22:00	917.6		920.2	916.4	920.6	917.9					920.1		920.5				
6	13:22:30	911.7		914.9	911.3	914.6	912.7					914.7		915.0				
7	13:23:00	910.7		914.0	910.5	913.8	910.7					912.5		913.0				
8	13:23:30	909.7		914.0	909.6	913.1	911.2					912.8		912.0				
9	13:24:00	910.7		912.3	910.5	914.6	911.7					912.8		912.0				
10	13:24:30	911.7		913.2	910.0	913.8	910.7					912.8		910.0				
11	13:25:00	909.7		914.0	910.5	913.8	911.5					913.0		912.0				
12	13:25:30	910.7		914.9	912.2	915.3	912.8					914.9		915.0				
13	13:26:00	913.7		917.5	914.7	916.8	915.3					916.5		918.0				
14	13:26:30	916.6		920.2	917.2	919.1	917.8					920.8		918.5				
15	13:27:00	915.7		919.3	915.5	918.3	916.7					918.5		918.0				
16	13:27:30	915.7		919.3	915.5	919.9	916.2					918.3		919.0				
17	13:28:00	916.6		920.2	916.4	919.9	917.7					918.8		919.0				
18	13:28:30	915.7		919.3	915.5	919.1	916.7					919.0		918.0				
19	13:29:00	916.6		920.2	916.8	919.3	917.3					919.3		920.0				
20	13:29:30	916.6		920.2	916.8	920.6	917.1					919.1		920.0				
21	13:30:00	916.6		919.3	915.5	919.9	917.2					917.7		919.0				
1		.9979		1.0028	.9977	1.0016	.9989					1.0015		1.0015				
2		.9980		1.0019	.9978	1.0023	.9993					1.0018		1.0017				
3		.9982		1.0018	.9977	1.0020	.9994					1.0019		1.0014				
4		.9993		1.0016	.9975	1.0026	.9990					1.0016		1.0014				
5		.9988		1.0016	.9975	1.0021	.9991					1.0015		1.0020				
6		.9983		1.0018	.9979	1.0015	.9994					1.0016		1.0019				
7		.9987		1.0023	.9985	1.0021	.9987					1.0007		1.0012				
8		.9980		1.0028	.9979	1.0018	.9997					1.0014		1.0006				
9		.9987		1.0005	.9985	1.0030	.9998					1.0010		1.0001				
10		1.0004		1.0020	.9985	1.0027	.9993					1.0016		.9985				
11		.9978		1.0025	.9987	1.0023	.9998					1.0014		1.0003				
12		.9971		1.0017	.9987	1.0021	.9994					1.0017		1.0018				
13		.9978		1.0019	.9989	1.0012	.9995					1.0008		1.0025				
14		.9983		1.0022	.9989	1.0010	.9996					1.0028		1.0003				
15		.9984		1.0023	.9982	1.0012	.9995					1.0015		1.0009				
16		.9982		1.0021	.9980	1.0028	.9987					1.0010		1.0018				
17		.9985		1.0024	.9983	1.0021	.9997					1.0009		1.0011				
18		.9982		1.0022	.9980	1.0019	.9993					1.0018		1.0007				
19		.9982		1.0021	.9984	1.0018	.9989					1.0011		1.0019				
20		.9982		1.0022	.9985	1.0026	.9988					1.0010		1.0019				
21		.9990		1.0019	.9978	1.0026	.9996					1.0002		1.0016				
MEAN		.9984		1.0020	.9982	1.0021	.9993					1.0014		1.0012				
S.D.		.0007		.0005	.0004	.0006	.0004					.0006		.0009				



20	23	24	MEAN	S.D.
	915.5	918.0	917.62	1.821
	916.3	918.0	918.44	1.792
	918.1	920.0	920.22	1.699
	918.8	921.0	921.23	1.739
	916.9	918.0	918.69	1.656
	911.4	913.0	913.26	1.569
	909.9	912.0	911.90	1.518
	909.5	911.5	911.49	1.647
	910.2	912.0	911.87	1.351
	909.0	911.0	911.36	1.634
	909.7	911.0	911.69	1.637
	911.5	913.0	913.37	1.715
	913.7	915.5	915.74	1.564
	916.1	917.5	916.20	1.592
	915.5	917.0	917.17	1.426
	915.3	917.0	917.36	1.793
	916.2	917.0	917.98	1.538
	915.6	917.0	917.32	1.571
	916.5	918.0	918.29	1.562
	916.0	917.5	918.21	1.763
	915.6	917.0	917.53	1.583
	.9977	1.0004		
	.9977	.9995		
	.9977	.9998		
	.9974	.9997		
	.9981	.9993		
	.9980	.9997		
	.9978	1.0001		
	.9978	1.0000		
	.9982	1.0001		
	.9974	.9996		
	.9978	.9992		
	.9980	.9996		
	.9978	.9997		
	.9977	.9992		
	.9982	.9998		
	.9978	.9996		
	.9981	.9989		
	.9981	.9996		
	.9981	.9997		
	.9976	.9992		
	.9979	.9994		
	.9978	.9996		
	.0002	.0004		

TABLE 3-28

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 26: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	13:44:00	914.0	917.3	912.1	916.3	915.6	916.0	916.5	916.0	916.0	916.0	916.0	916.0	916.0	916.0			
2	13:44:30	909.1	914.7	909.6	914.8	912.3	912.3	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7			
3	13:45:00	907.1	912.1	907.9	911.8	910.3	910.3	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4			
4	13:45:30	908.1	913.8	909.6	913.3	911.1	911.1	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5			
5	13:46:00	911.1	916.5	912.1	915.6	913.8	913.8	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0			
6	13:46:30	911.1	917.3	912.1	914.8	915.1	915.1	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2			
7	13:47:00	913.0	917.3	912.9	917.1	915.3	915.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3			
8	13:47:30	915.0	918.2	912.9	917.8	916.1	916.1	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7			
9	13:48:00	913.0	917.3	912.9	915.6	915.1	915.1	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2			
10	13:48:30	912.1	917.3	912.9	915.6	915.9	915.9	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0			
11	13:49:00	910.1	914.7	911.2	914.1	912.4	912.4	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8			
12	13:49:30	910.1	914.7	910.4	913.3	912.9	912.9	913.9	913.9	913.9	913.9	913.9	913.9	913.9	913.9			
13	13:50:00	911.1	914.7	910.4	914.1	913.5	913.5	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4			
14	13:50:30	916.0	914.7	910.4	913.3	912.7	912.7	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3			
15	13:51:00	912.1	915.6	911.2	915.6	913.4	913.4	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6			
16	13:51:30	911.1	912.9	909.6	912.6	911.6	911.6	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3			
17	13:52:00	926.0	913.8	909.6	912.6	912.3	912.3	910.7	910.7	910.7	910.7	910.7	910.7	910.7	910.7			
18	13:52:30	910.1	911.2	907.9	910.3	910.1	910.1	906.9	906.9	906.9	906.9	906.9	906.9	906.9	906.9			
19	13:53:00	906.2	908.6	905.3	906.5	907.3	907.3	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4			
20	13:53:30	904.2	909.5	904.5	905.0	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5			
21	13:54:00	909.1	908.6	904.5	904.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5			
1		.9988	1.0024	.9967	1.0013	1.0005	1.0005	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015			
2		.9967	1.0028	.9972	1.0029	1.0002	1.0002	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017			
3		.9968	1.0023	.9976	1.0019	1.0003	1.0003	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026			
4		.9966	1.0028	.9982	1.0023	.9999	.9999	1.0025	1.0025	1.0025	1.0025	1.0025	1.0025	1.0025	1.0025			
5		.9973	1.0032	.9983	1.0022	1.0002	1.0002	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015			
6		.9966	1.0034	.9977	1.0007	1.0010	1.0010	1.0022	1.0022	1.0022	1.0022	1.0022	1.0022	1.0022	1.0022			
7		.9977	1.0024	.9976	1.0022	1.0002	1.0002	1.0013	1.0013	1.0013	1.0013	1.0013	1.0013	1.0013	1.0013			
8		.9995	1.0030	.9972	1.0026	1.0007	1.0007	1.0003	1.0003	1.0003	1.0003	1.0003	1.0003	1.0003	1.0003			
9		.9982	1.0029	.9981	1.0011	1.0005	1.0005	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017			
10		.9973	1.0029	.9981	1.0011	1.0014	1.0014	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015			
11		.9974	1.0025	.9986	1.0018	1.0000	1.0000	1.0019	1.0019	1.0019	1.0019	1.0019	1.0019	1.0019	1.0019			
12		.9978	1.0028	.9981	1.0013	1.0008	1.0008	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012			
13		.9983	1.0022	.9975	1.0016	1.0009	1.0009	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017			
14		1.0034	1.0020	.9973	1.0005	.9998	.9998	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011			
15		.9987	1.0025	.9977	1.0025	1.0001	1.0001	1.0002	1.0002	1.0002	1.0002	1.0002	1.0002	1.0002	1.0002			
16		.9996	1.0016	.9980	1.0013	1.0002	1.0002	.9994	.9994	.9994	.9994	.9994	.9994	.9994	.9994			
17		1.0152	1.0010	.9964	.9997	.9994	.9994	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011			
18		1.0004	1.0016	.9980	1.0006	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004			
19		.9996	1.0023	.9986	.9999	1.0008	1.0008	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004	1.0004			
20		.9981	1.0040	.9985	.9990	1.0007	1.0007	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017			
21		1.0029	1.0023	.9978	1.0000	.9998	.9998	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000			
MEAN		.9994	1.0025	.9978	1.0013	1.0004	1.0004	1.0013	1.0013	1.0013	1.0013	1.0013	1.0013	1.0013	1.0013			
S.D.		.0041	.0007	.0006	.0010	.0005	.0005	.0008	.0008	.0008	.0008	.0008	.0008	.0008	.0008			

	20	23	24	MEAN	S.D.
	913.1	915.0	915.10	1.715	
	910.7	912.0	912.16	2.062	
	908.3	910.0	910.04	1.918	
	909.1	911.0	911.22	2.036	
	911.4	913.0	913.61	1.880	
	911.9	914.0	914.17	2.084	
	912.9	915.0	915.09	1.776	
	913.2	915.0	915.43	1.794	
	912.4	915.0	914.61	1.655	
	912.7	915.0	914.61	1.775	
	910.6	912.0	912.43	1.605	
	909.9	912.0	912.13	1.726	
	910.5	913.0	912.68	1.608	
	910.3	912.0	912.87	1.934	
	910.0	913.0	913.28	1.725	
	909.4	912.0	911.42	1.215	
	908.6	911.0	912.89	5.512	
	908.2	910.0	909.72	1.118	
	905.2	907.0	906.56	1.055	
	903.9	906.0	905.89	1.777	
	903.9	906.0	906.49	1.676	
	.9978	.9999			
	.9984	.9998			
	.9981	1.0000			
	.9977	.9998			
	.9976	.9993			
	.9975	.9998			
	.9976	.9999			
	.9976	.9995			
	.9976	1.0004			
	.9979	1.0004			
	.9980	.9995			
	.9976	.9999			
	.9976	1.0004			
	.9972	.9991			
	.9973	.9997			
	.9970	1.0006			
	.9953	.9979			
	.9983	1.0003			
	.9985	1.0005			
	.9978	1.0001			
	.9971	.9995			
	.9976	.9998			
	.0006	.0006			

TABLE 3-29

THIRD INTERCOMPARISON - NOVEMBER 9, 1979  
 RUN 29: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	14:23:00	863.4		864.2	861.3	865.0	863.9					865.1		864.0				
2	14:23:30	864.4		864.8	863.8	867.2	865.9					867.9		865.0				
3	14:24:00	867.3		867.6	865.5	869.5	867.3					868.6		867.0				
4	14:24:30	867.3		867.6	865.5	870.3	867.5					868.8		867.0				
5	14:25:00	867.3		868.5	866.4	870.3	867.5					869.3		869.0				
6	14:25:30	869.3		870.2	867.2	871.8	869.2					871.4		870.0				
7	14:26:00	868.3		868.5	866.4	870.3	867.3					869.3		869.0				
8	14:26:30	862.4		861.5	860.4	864.2	861.4					861.8		862.0				
9	14:27:00	859.3		855.5	854.5	857.4	855.2					858.0		857.0				
10	14:27:30	872.3		856.3	854.5	858.9	855.7					857.2		857.0				
11	14:28:00	865.4		854.6	853.6	856.6	855.1					856.3		857.5				
12	14:28:30	865.4		854.6	853.6	857.4	855.0					855.8		856.0				
13	14:29:00	857.5		853.7	851.9	855.9	853.8					854.2		854.0				
14	14:29:30	854.6		853.7	851.9	855.1	853.2					855.0		854.0				
15	14:30:00	854.5		853.7	853.6	856.6	855.5					856.5		856.0				
16	14:30:30	864.4		851.1	852.8	856.6	854.5					855.7		855.0				
17	14:31:00	851.6		852.8	850.3	852.1	851.3					852.9		852.0				
18	14:31:30	847.7		847.6	844.3	846.8	845.3					847.0		847.0				
19	14:32:00	843.7		844.1	840.9	843.0	842.0					843.9		844.0				
20	14:32:30	851.6		848.7	838.4	840.8	839.2					842.4		839.0				
21	14:33:00	844.7		842.4	838.8	841.5	840.1					840.6		839.0				
1		.9997		1.0006	.9972	1.0025	1.0002					1.0016		1.0003				
2		1.0006		1.0011	.9976	1.0015	1.0000					1.0023		.9990				
3		1.0000		1.0004	.9980	1.0026	1.0000					1.0015		.9997				
4		.9998		1.0002	.9978	1.0033	1.0001					1.0016		.9995				
5		.9990		1.0004	.9980	1.0025	.9993					1.0013		1.0010				
6		.9997		1.0007	.9972	1.0025	.9995					1.0021		1.0005				
7		1.0002		1.0004	.9980	1.0025	.9991					1.0014		1.0010				
8		1.0006		.9996	.9983	1.0027	.9995					.9999		1.0002				
9		1.0035		.9989	.9977	1.0011	.9985					1.0018		1.0006				
10		1.0165		.9979	.9958	1.0009	.9972					.9998		.9989				
11		1.0104		.9978	.9967	1.0002	.9984					.9998		1.0012				
12		1.0107		.9981	.9969	1.0013	.9985					.9995		.9995				
13		1.0039		.9995	.9973	1.0020	.9996					1.0000		.9998				
14		1.0012		1.0001	.9980	1.0017	.9995					1.0016		1.0005				
15		1.0015		.9982	.9981	1.0016	1.0003					1.0015		1.0009				
16		1.0107		.9951	.9971	1.0016	.9991					1.0005		.9997				
17		1.0000		1.0014	.9985	1.0006	.9996					1.0005		1.0005				
18		1.0017		1.0015	.9976	1.0006	.9988					1.0008		1.0008				
19		1.0009		1.0014	.9976	1.0001	.9989					1.0012		1.0012				
20		1.0126		.9996	.9969	.9997	.9978					1.0016		.9976				
21		1.0048		1.0021	.9978	1.0010	.9993					.9999		.9980				
MEAN		1.0037		.9998	.9975	1.0015	.9992					1.0010		1.0000				
S.D.		.0052		.0016	.0006	.0010	.0008					.0009		.0010				

20	23	24	MEAN	S.D.
	862.4	864.0	863.70	1.207
	864.5	865.5	865.89	1.327
	865.7	867.0	867.28	1.255
	866.0	867.0	867.44	1.428
	866.9	868.0	868.13	1.254
	868.3	869.0	869.60	1.443
	866.5	867.5	868.12	1.310
	861.1	862.0	861.87	1.052
	855.1	856.0	856.47	1.628
	855.1	856.0	858.11	5.473
	854.0	855.0	856.46	3.583
	853.5	855.0	856.26	3.636
	852.5	854.0	854.17	1.675
	852.0	853.0	853.61	1.191
	853.5	855.0	855.21	1.314
	853.3	854.0	855.27	3.791
	850.0	851.5	851.61	.993
	845.0	846.0	846.30	1.207
	841.6	843.0	842.91	1.112
	838.2	839.0	841.03	4.187
	838.9	840.0	840.67	1.940
	.9985	1.0003		
	.9984	.9996		
	.9982	.9997		
	.9983	.9995		
	.9986	.9998		
	.9985	.9993		
	.9981	.9993		
	.9991	1.0002		
	.9984	.9995		
	.9965	.9975		
	.9971	.9983		
	.9968	.9985		
	.9980	.9998		
	.9980	.9998		
	.9977	.9985		
	.9981	.9999		
	.9985	.9996		
	.9984	1.0001		
	.9966	.9976		
	.9979	.9992		
	.9980	.9993		
	.0007	.0008		

THIRD INTERCOMPARISON - NOVEMBER 5, 6, 9, 1979  
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	INSTRUMENT IDENTIFICATION NUMBER																		
	1	3	5	7	8	9	10	11	12	13	14	17	18	19					
1	1.0033	1.0003		.9970	1.0019	.9989	1.0020	1.0030		1.0007	1.0005	1.0005	.9986	.9980					
2	.9988	.9979		.9964	1.0009	.9991	1.0027	.9994	1.0060	1.0023	1.0012	1.0015	.9998	.9999					
3	.9983	1.0002		.9967	.9993	.9986	1.0042	1.0021	1.0101	1.0020	1.0002	1.0023	.9974	.9993					
4	.9987	.9896		.9973	1.0006	.9996	1.0030	1.0009	1.0101	1.0024	1.0006	1.0006	1.0023	1.0004					
5	.9943	1.0003		.9964	1.0013	.9978	1.0032	1.0048	1.0092	1.0015	1.0016	.9999	1.0004	.9997					
6	.9962	.9910		.9967	1.0006	.9989	1.0034	1.0021	1.0056	1.0031	1.0008	1.0052	.9998	1.0001					
7	.9997	.9905		.9969	1.0005	.9991	1.0034	1.0050	1.0090	1.0026	1.0001	.9986	1.0002	.9998					
8	.9967	.9847		.9974	1.0013	.9998	1.0046	1.0008	1.0054	1.0045	1.0012	1.0030	1.0016	1.0008					
9	1.0008	.9850		.9970	1.0012	.9993	1.0039	1.0015	1.0019	1.0025	1.0017	1.0040	1.0004	1.0009					
10	.9953	.9844		.9978	1.0024	.9992	1.0041	1.0024	1.0050	1.0030	1.0027	1.0035	1.0021	1.0013					
11	1.0018	.9695		.9967	1.0011	.9986	1.0041	1.0015	1.0040	1.0029	1.0012	1.0022	.9995	.9997					
12	.9978	.9874		.9967	1.0007	.9986	1.0033	1.0022	1.0091	1.0026	1.0008	1.0025	.9992	1.0003					
13	1.0025	.9906		.9971	.9997	.9983	1.0027	1.0036	1.0068	1.0024	1.0015	1.0028	.9993	1.0003					
14		.9932		.9967	1.0028			1.0041	1.0070	1.0020	.9993	1.0027	1.0011	.9991					
15		.9956		.9974	.9987			1.0067	1.0008	1.0022	1.0005	.0032	.9978	1.0004					
16		.9808		.9974	1.0019			1.0025	1.0066	1.0056	1.0009	1.0035	1.0006	1.0005					
17		.9812		.9978	1.0025			1.0059	1.0059	1.0029	1.0011	1.0032	1.0010	1.0009					
18	.9981	.9789		.9988	1.0023			1.0069	1.0071	1.0031	1.0009	1.0022	1.0011	1.0006					
19	.9989	1.0015		.9960	1.0013	1.0004		1.0032	1.0079	1.0009	.9995	1.0008	.9996	.9986					
20	.9982	.9956	1.0008	.9973	1.0013	.9981		1.0062	1.0068	1.0014	1.0006	1.0014	.9996	.9996					
21	.9989	.9952	1.0012	.9966	1.0025	.9986		1.0029	1.0088	1.0005	.9999	1.0005	.9993	.9988					
22	.9981	.9956	1.0011	.9968	1.0008	.9986		1.0044	1.0089	1.0014	1.0005	1.0005	.9992	.9997					
23	.9981	.9982	1.0004	.9965	.9999	.9982		1.0043	1.0112	1.0020	.9997	1.0006	.9985	.9990					
24	.9984	.9961	1.0005	.9970	1.0004	.9985		1.0039	1.0098	1.0014	1.0000	1.0006	.9991	.9996					
25	.9996		1.0025	.9973	1.0019	.9995				1.0014	1.0002		1.0005	1.0004					
26	.9969		1.0023	.9979	1.0020	1.0000				1.0015	1.0015		1.0003						
27	.9984		1.0020	.9982	1.0021	.9993				1.0014	1.0014		1.0012						
28	.9994		1.0025	.9978	1.0013	1.0004				1.0013	1.0013		.9999						
29	1.0037		.9998	.9975	1.0015	.9992				1.0010	1.0010		1.0000						
MEAN	.9988	.9918	1.0013	.9971	1.0012	.9990	1.0034	1.0033	1.0067	1.0023	1.0002	1.0019	1.0000	.9999					
S.D.	.0023	.0067	.0010	.0006	.0010	.0007	.0007	.0020	.0028	.0011	.0007	.0015	.0012	.0008					

20	23	24
.9972		.9982
1.0008		.9984
1.0007		.9986
1.0000		.9992
.9959	.9974	.9983
1.0025	.9970	.9985
1.0001	.9978	.9987
1.0007	.9985	.9995
1.0034	.9987	.9994
1.0024	.9980	1.0003
1.0010	.9970	.9992
1.0015	.9974	.9993
.9998	.9978	.9997
1.0010	.9980	.9984
.9995	.9985	.9989
1.0018	.9989	.9992
1.0002	.9983	.9991
1.0004	.9997	.9986
.9991	.9969	.9976
.9987	.9975	.9981
1.0009	.9973	.9979
.9994	.9967	.9984
.9995	.9961	.9978
.9988	.9972	.9983
1.0015	.9975	.9993
1.0012	.9977	1.0002
	.9978	.9996
	.9976	.9998
	.9980	.9993
1.0003	.9977	.9989
.0016	.0008	.0007

Fourth Intercomparison - November 17 - 19, 1980



TABLE 4-1

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980  
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		
		3	5	7	8	10	11	13	16	17	18	20	24	25	26					
1	10:54:00	1003.0	995.5	1000.8	1002.6	1007.0	1005.0	1023.1	1002.0	1004.0	1004.0	1004.0	1000.9	1003.8						
2	10:54:30	1002.9	995.5	1005.3	1003.1	1006.0	1005.0		1002.0	1003.0	1003.0	1003.0	1001.0	1004.6						
3	10:55:00	1003.7	995.5	1005.3	1004.2	1005.0	1005.0	997.3	1003.0	1002.0	1004.0	1004.0	1001.1	1004.6						
4	10:55:30	1003.4	995.5	1004.6	1003.4	1003.0	1005.0		1003.0	1002.0	1005.0	1005.0	1000.8	1004.7						
5	10:56:00	1001.1	993.0	999.3	1001.2	1002.0	1003.0		970.8	1002.0	999.0	1002.0	999.1	1002.9						
6	10:56:30	998.6	991.3	999.3	998.3	999.0	1001.0		999.0	997.0	1000.0	996.4	1000.0	1000.0						
7	10:57:00	998.7	994.7	1003.1	998.7	1002.0	1004.0		994.0	1001.5	998.5	1003.0	999.2	1003.1						
8	10:57:30	999.5	992.2	1000.8	1000.1	1002.0	1003.0		1001.0	998.0	1002.0	998.4	1002.0	1002.0						
9	10:58:00	999.0	992.2	1001.6	999.7	1000.0	1000.0		997.0	998.0	1000.0	997.4	1000.9	1000.9						
10	10:58:30	1000.3	993.9	1003.8	1001.1	1003.0	1003.0		1001.0	999.0	1001.0	998.6	1002.4	1002.4						
11	10:59:00	1003.2	994.7	1002.3	1003.6	1004.0	1004.0		1002.0	1002.0	1003.0	1000.6	1000.6	1004.2						
12	10:59:30	1004.1	998.1	1006.8	1004.3	1007.0	1006.0		1004.0	1003.5	1003.0	1002.2	1006.0	1006.0						
13	11:00:00	1005.3	998.1	1006.8	1006.0	1006.0	1006.0		1005.0	1003.0	1003.0	1002.4	1006.3	1006.3						
14	11:00:30	1002.4	999.8	1010.6	1003.0	1008.0	1006.0		1005.0	1004.5	1007.0	1003.7	1007.5	1007.5						
15	11:01:00	1007.2	999.8	1009.1	1007.3	1008.0	1008.0		1007.0	1005.5	1006.0	1004.8	1008.6	1008.6						
16	11:01:30	1007.7	999.8	1003.1	1007.5	1008.0	1009.0		1007.0	1006.0	1007.0	1004.5	1008.5	1008.5						
17	11:02:00	1007.9	999.8	1006.8	1008.1	1008.0	1008.0		1006.0	1006.0	1007.0	1004.3	1008.1	1008.1						
18	11:02:30	1007.5	999.8	1009.1	1008.0	1010.0	1008.0		1006.0	1006.0	1006.0	1004.0	1008.0	1008.0						
19	11:03:00	1006.6	998.9	1008.4	1006.8	1009.0	1008.0		1023.3	1006.0	1005.0	1003.8	1007.8	1007.8						
20	11:03:30	1007.1	999.8	1008.4	1008.2	1010.0	1008.0		1006.0	1006.0	1006.0	1004.4	1008.2	1008.2						
21	11:04:00	1008.6	1000.6	1009.9	1009.1	1010.0	1009.0		1008.7	1007.0	1007.0	1008.0	1005.4	1009.2						
1		.9987	.9913	.9965	.9983	1.0027	1.0007	1.0187	.9977	.9997	.9997	.9997	.9966	.9995						
2		1.0000	.9927	1.0024	1.0002	1.0031	1.0021		.9947	.9992	1.0001	1.0001	.9982	1.0017						
3		1.0011	.9929	1.0027	1.0016	1.0024	1.0024			1.0004	.9994	1.0014	.9985	1.0020						
4		1.0006	.9928	1.0018	1.0006	1.0002	1.0022			1.0002	.9992	1.0022	.9980	1.0019						
5		1.0029	.9948	1.0011	1.0030	1.0038	1.0048		.9726	1.0038	1.0008	1.0038	1.0009	1.0047						
6		1.0004	.9931	1.0011	1.0001	1.0008	1.0028			1.0008	.9988	1.0018	.9982	1.0018						
7		.9986	.9946	1.0030	.9986	1.0019	1.0039		.9939	1.0014	.9984	1.0029	.9991	1.0030						
8		.9996	.9923	1.0009	1.0002	1.0021	1.0031		1.0086	1.0011	.9981	1.0021	.9985	1.0021						
9		.9995	.9927	1.0021	1.0002	1.0005	1.0005			.9975	.9985	1.0005	.9979	1.0014						
10		.9997	.9933	1.0032	1.0005	1.0024	1.0024			1.0004	.9984	1.0004	.9980	1.0018						
11		.9989	.9904	.9980	.9993	.9997	.9997		1.0259	.9977	.9977	.9987	.9963	.9999						
12		.9978	.9939	1.0025	1.0000	1.0027	1.0017			.9997	.9992	1.0007	.9979	1.0017						
13		.9974	.9923	1.0009	1.0001	1.0001	1.0001		1.0159	.9992	.9972	.9992	.9966	1.0004						
14		.9971	.9946	1.0053	.9977	1.0027	1.0007			.9997	.9992	1.0017	.9984	1.0022						
15		.9999	.9926	1.0018	1.0000	1.0007	1.0007		1.0073	.9997	.9982	1.0007	.9975	1.0013						
16		1.0015	.9936	.9969	1.0013	1.0018	1.0027			1.0008	.9998	1.0008	.9983	1.0023						
17		1.0014	.9934	1.0003	1.0016	1.0015	1.0015		1.0000	1.0005	.9995	1.0005	.9979	1.0016						
18		1.0009	.9932	1.0025	1.0014	1.0034	1.0014			.9994	.9994	.9994	.9977	1.0014						
19		.9993	.9916	1.0010	.9995	1.0016	1.0006		1.0158	.9987	.9977	.9987	.9965	1.0004						
20		1.0005	.9933	1.0018	1.0016	1.0034	1.0014			.9994	.9994	.9994	.9978	1.0016						
21		1.0009	.9929	1.0022	1.0014	1.0023	1.0013		1.0010	.9993	.9993	1.0003	.9977	1.0015						
MEAN		1.0000	.9930	1.0013	1.0003	1.0019	1.0018		1.0049	.9993	.9990	1.0007	.9979	1.0016						
S.D.		.0012	.0011	.0021	.0013	.0012	.0013		.0148	.0014	.0009	.0014	.0010	.0011						

27	MEAN	S. D.
1004.0	1004.28	6.277
1002.8	1002.85	2.728
1002.9	1002.58	3.026
1002.7	1002.76	2.615
1000.9	998.18	8.629
998.2	998.17	2.509
1001.1	1000.12	3.186
1000.2	999.93	2.865
999.1	999.45	3.488
1000.5	1000.63	2.648
1002.5	1006.35	8.208
1004.3	1004.27	2.401
1004.4	1005.85	5.319
1005.7	1005.27	2.076
1006.9	1007.30	3.255
1006.7	1006.23	2.617
1006.6	1006.48	2.268
1006.6	1006.61	2.648
1006.0	1007.35	5.437
1006.7	1006.57	2.599
1007.7	1007.71	2.493

.9997  
1.0000  
1.0003  
.9999  
1.0027  
1.0000  
1.0018  
1.0003  
.9996  
.9999  
.9982  
1.0000  
.9986  
1.0004  
.9996  
1.0005  
1.0001  
1.0000  
.9987  
1.0001  
1.0000  
1.0070  
.0019

TABLE 5 4- 2

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980  
RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		
		3	5	7	8	10	11	13	16	17	18	20	24	25	26					
1	11:21:00	1024.0	1019.8	1016.0	1020.0	1021.9	1023.0	1021.0	1018.9	1018.0	1019.0	1019.0	1017.4		1020.4					
2	11:21:30	1021.0	1019.4	1014.3	1020.0	1021.4	1021.0	1021.0	1017.0	1018.0	1018.0	1018.0	1014.1		1019.1					
3	11:22:00	1020.0	1020.2	1015.1	1019.2	1022.3	1022.0	1022.0	1041.7	1018.0	1018.0	1019.0	1017.0		1020.0					
4	11:22:30	1014.0	1021.1	1016.0	1023.7	1023.0	1024.0	1022.0	1019.0	1018.0	1018.0	1019.0	1017.6		1020.9					
5	11:23:00	1017.0	1019.2	1012.6	1019.2	1021.5	1023.0	1021.0	1047.2	1018.0	1017.0	1018.0	1017.2		1020.4					
6	11:23:30	1017.0	1020.0	1016.0	1023.0	1022.7	1024.0	1021.0	1032.7	1019.0	1019.0	1019.0	1017.8		1021.1					
7	11:24:00	1021.0	1019.5	1016.0	1021.5	1022.3	1023.0	1022.0	1031.8	1020.0	1020.0	1020.0	1017.5		1020.7					
8	11:24:30	1024.0	1020.7	1016.0	1021.5	1023.2	1023.0	1023.0	1020.0	1020.0	1020.0	1020.0	1018.2		1021.7					
9	11:25:00	1018.0	1020.1	1017.7	1021.5	1023.4	1025.0	1023.0	1031.8	1020.0	1020.0	1020.0	1018.3		1021.4					
10	11:25:30	1023.0	1021.6	1018.5	1022.2	1024.2	1026.0	1023.0	1020.0	1020.0	1020.0	1020.0	1019.3		1022.6					
11	11:26:00	1019.0	1023.2	1019.4	1026.8	1025.4	1026.0	1025.0	1016.9	1022.0	1022.0	1022.0	1020.5		1023.7					
12	11:26:30	1021.9	1023.3	1019.4	1020.0	1025.5	1025.0	1025.0	1016.9	1022.0	1021.0	1022.0	1020.3		1023.9					
13	11:27:00	1020.0	1023.6	1020.2	1023.7	1025.2	1026.0	1025.0	1036.5	1022.0	1022.0	1022.0	1020.6		1024.2					
14	11:27:30	1020.0	1023.5	1021.1	1024.5	1025.9	1026.0	1025.0	1034.2	1023.0	1022.0	1022.0	1020.9		1024.3					
15	11:28:00	1020.0	1024.7	1021.9	1027.5	1027.5	1028.0	1027.0	1034.2	1024.0	1024.0	1024.0	1022.5		1025.8					
16	11:28:30	1027.0	1026.1	1021.9	1028.3	1027.8	1028.0	1028.0	1034.2	1025.0	1025.0	1024.0	1023.2		1026.3					
17	11:29:00	1025.6	1025.9	1021.9	1026.0	1028.6	1029.0	1028.0	1034.2	1025.0	1025.0	1025.0	1023.7		1026.9					
18	11:29:30	1020.0	1026.1	1021.1	1026.0	1029.2	1028.0	1027.0	1034.2	1024.0	1025.0	1024.0	1022.9		1026.4					
19	11:30:00	1023.0	1024.8	1019.4	1023.7	1027.3	1025.0	1025.0	1043.1	1022.0	1022.0	1022.0	1020.5		1023.6					
20	11:30:30	1022.0	1022.6	1016.8	1023.0	1026.1	1023.0	1024.0	1043.1	1022.0	1020.0	1020.0	1019.0		1022.2					
21	11:31:00		1015.7			1018.0									1004.0					
1		1.0049	1.0007	.9970	1.0009	1.0028	1.0039	1.0019	.9999	.9990	1.0008	1.0008	.9984		1.0013					
2		1.0023	1.0007	.9957	1.0013	1.0027	1.0023	1.0023		.9984	.9994	.9994	.9975		1.0005					
3		.9992	.9994	.9944	.9984	1.0016	1.0012	1.0012	1.0205	.9972	.9972	.9982	.9963		.9992					
4		.9944	1.0014	.9972	1.0039	1.0032	1.0042	1.0023		.9993	.9983	.9993	.9979		1.0012					
5		.9965	.9986	.9922	.9984	1.0009	1.0024	1.0004	1.0261	.9975	.9965	.9975	.9967		.9998					
6		.9972	1.0002	.9963	1.0031	1.0028	1.0041	1.0012	1.0261	.9992	.9992	.9992	.9980		1.0013					
7		1.0003	.9988	.9954	1.0008	1.0015	1.0022	1.0012	1.0117	.9983	.9983	.9983	.9968		1.0000					
8		1.0032	.9999	.9961	1.0007	1.0024	1.0022	1.0022	1.0117	.9992	.9992	.9992	.9975		1.0009					
9		.9968	.9969	.9945	1.0003	1.0021	1.0037	1.0017	1.0104	.9988	.9988	.9988	.9971		1.0002					
10		1.0015	1.0001	.9971	1.0007	1.0027	1.0044	1.0015	1.0104	.9985	.9985	.9985	.9978		1.0002					
11		.9968	1.0009	.9972	1.0044	1.0031	1.0036	1.0027	.9947	.9997	.9997	.9997	.9983		1.0014					
12		.9988	1.0011	.9973	.9979	1.0032	1.0028	1.0028		.9998	.9988	.9988	.9982		1.0017					
13		.9964	1.0000	.9946	1.0001	1.0015	1.0023	1.0013	1.0126	.9984	.9984	.9984	.9970		1.0005					
14		.9971	1.0005	.9981	1.0015	1.0028	1.0029	1.0019		1.0000	.9990	.9990	.9979		1.0013					
15		.9949	.9995	.9968	1.0022	1.0022	1.0027	1.0017	1.0088	.9988	.9988	.9988	.9973		1.0006					
16		1.0013	1.0004	.9963	1.0026	1.0021	1.0023	1.0023		.9994	.9994	.9994	.9976		1.0006					
17		.9988	.9997	.9958	.9998	1.0023	1.0027	1.0017	1.0078	.9988	.9988	.9988	.9975		1.0007					
18		1.0024	1.0006	.9957	1.0013	1.0036	1.0024	1.0017		.9985	.9995	.9995	.9975		1.0009					
19		.9986	1.0004	.9951	.9993	1.0028	1.0006	1.0006	1.0183	.9977	.9977	.9977	.9962		.9992					
20		1.0007	1.0013	.9956	1.0017	1.0047	1.0017	1.0027		.9987	.9987	.9987	.9978		1.0009					
21			1.0037			1.0059							.9983		.9921					
MEAN		.9991	1.0003	.9961	1.0010	1.0027	1.0027	1.0017	1.0111	.9988	.9987	.9988	.9975		1.0002					
S.D.		.0029	.0011	.0013	.0017	.0011	.0010	.0007	.0093	.0007	.0006	.0006	.0006		.0020					

27	MEAN	S.D.
1008.3	1019.05	3.763
1016.0	1018.64	2.286
1017.0	1020.82	6.363
1017.0	1019.70	3.035
1017.0	1020.59	8.068
1018.0	1019.82	2.431
1017.0	1020.73	4.023
1018.0	1020.78	2.227
1018.0	1021.23	3.773
1019.0	1021.49	2.247
1020.0	1022.28	2.920
1020.0	1022.18	2.136
1020.0	1023.64	4.217
1021.0	1023.02	2.013
1022.0	1025.22	3.541
1023.0	1025.66	2.156
1023.0	1026.23	3.066
1023.0	1025.50	2.388
1020.0	1024.39	5.811
1018.0	1021.28	2.592
	1012.00	6.234
.9895		
.9974		
.9963		
.9974		
.9965		
.9982		
.9963		
.9973		
.9968		
.9976		
.9979		
.9964		
.9980		
.9969		
.9974		
.9969		
.9976		
.9957		
.9968		
.9967		
.0018		

TABLE 4-3

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980  
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	11:56:00	1023.0	1020.9	1017.8	1024.7	1023.0	1024.0	1022.0	1030.4	1019.0	1020.0	1018.0	1018.5		1022.3
2	11:56:30	1025.0	1020.7	1017.6	1024.0	1023.5	1026.0	1022.0		1020.0	1021.0	1019.0	1019.4		1023.2
3	11:57:00	1024.0	1021.0	1016.9	1023.2	1022.8	1024.0	1021.0	1034.4	1019.0	1019.0	1018.0	1018.5		1022.4
4	11:57:30	1018.0	1019.8	1016.9	1023.2	1022.2	1023.0	1021.0		1019.0	1018.0	1017.0	1017.6		1021.5
5	11:58:00	1021.0	1019.6	1015.3	1021.0	1021.6	1022.0	1020.0	1020.7	1019.0	1017.0	1017.0	1017.1		1021.1
6	11:58:30	1017.0	1019.7	1017.8	1023.2	1022.7	1023.0	1022.0		1019.0	1018.0	1018.0	1018.7		1022.7
7	11:59:00	1018.0	1020.3	1016.9	1024.0	1022.2	1021.0	1021.0	1032.7	1018.0	1018.0	1018.0	1017.7		1022.1
8	11:59:30		1017.8	1014.4	1020.2	1019.7	1018.0	1019.0		1017.0	1015.0	1016.0	1015.7		1019.8
9	12:00:00	1018.0	1019.9	1016.1	1022.5	1021.3	1021.0	1020.0	1029.5	1017.0	1018.0	1017.0	1016.7		1020.8
10	12:00:30	1020.0	1019.7	1016.1	1022.5	1021.6	1023.0	1020.0		1018.0	1018.0	1016.0	1017.1		1021.4
11	12:01:00	1020.0	1019.5	1015.3	1024.7	1021.1	1021.0	1020.0	1024.2	1017.0	1017.0	1016.0	1016.3		1020.6
12	12:01:30	1019.0	1020.1	1015.3	1020.2	1021.7	1021.0	1020.0		1018.0	1017.0	1016.0	1016.6		1020.9
13	12:02:00	1019.0	1019.2	1016.1	1021.0	1021.3	1020.0	1019.0	1031.1	1017.0	1017.0	1016.0	1016.5		1020.9
14	12:02:30	1018.0	1019.9	1015.3	1021.7	1021.9	1019.0	1020.0		1018.0	1017.0	1018.0	1016.9		1021.3
15	12:03:00	1015.0	1019.4	1014.4	1020.2	1021.1	1019.0	1020.0	1035.8	1018.0	1017.0	1018.0	1016.8		1021.3
16	12:03:30		1019.7	1015.3	1020.2	1021.5	1019.0	1020.0		1018.0	1017.0	1018.0	1016.9		1021.6
17	12:04:00	1021.0	1019.6	1014.4	1018.7	1021.7	1019.0	1019.0	1023.1	1017.0	1017.0	1016.0	1015.9		1020.8
18	12:04:30	1024.0	1019.0	1016.1	1021.0	1020.9	1023.0	1021.0		1018.0	1019.0	1017.0	1017.8		1022.3
19	12:05:00		1019.8	1016.9	1022.5	1021.6	1023.0	1022.0	1043.9	1019.0	1019.0	1018.0	1018.3		1022.4
20	12:05:30	1016.0	1019.9	1014.4	1018.0	1021.8	1019.0	1019.0		1017.0	1017.0	1016.0	1016.0		1020.5
21	12:06:00	1016.0	1020.3	1016.9	1027.0	1022.1	1020.0	1022.0	1043.8	1019.0	1018.0	1019.0	1018.3		1022.9
1		1.0014	.9993	.9963	1.0030	1.0014	1.0023	1.0004	1.0086	.9974	.9984	.9965	.9970		1.0007
2		1.0033	.9991	.9962	1.0023	1.0016	1.0042	1.0003		.9984	.9994	.9978	.9978		1.0015
3		1.0023	.9994	.9953	1.0035	1.0011	1.0033	.9994	1.0125	.9974	.9974	.9964	.9969		1.0007
4		.9984	1.0002	.9973	1.0035	1.0025	1.0033	1.0013		.9994	.9984	.9974	.9980		1.0010
5		1.0012	.9998	.9956	1.0012	1.0018	1.0021	1.0002	1.0087	.9992	.9972	.9972	.9973		1.0013
6		.9969	.9996	.9977	1.0030	1.0025	1.0028	1.0018		.9989	.9975	.9975	.9986		1.0025
7		.9975	.9997	.9964	1.0034	1.0016	1.0004	1.0004	1.0119	.9975	.9975	.9975	.9972		1.0015
8			1.0004	.9971	1.0028	1.0023	1.0004	1.0016		.9996	.9977	.9986	.9983		1.0024
9		.9984	1.0003	.9965	1.0020	1.0016	1.0013	1.0004	1.0097	.9974	.9984	.9974	.9971		1.0011
10		1.0006	1.0004	.9960	1.0031	1.0022	1.0036	1.0006		.9987	.9987	.9967	.9978		1.0011
11		1.0007	1.0002	.9961	1.0053	1.0018	1.0017	1.0007	1.0048	.9978	.9978	.9968	.9971		1.0013
12		1.0003	1.0014	.9967	1.0015	1.0030	1.0023	1.0013		.9993	.9984	.9974	.9980		1.0022
13		.9996	.9998	.9968	1.0016	1.0016	1.0006	.9996	1.0115	.9977	.9977	.9974	.9972		1.0015
14		.9992	1.0010	.9965	1.0020	1.0030	1.0002	1.0011		.9992	.9982	.9992	.9981		1.0024
15		.9956	.9999	.9950	1.0007	1.0016	.9995	1.0005	1.0160	.9985	.9975	.9975	.9974		1.0018
16			1.0009	.9964	1.0014	1.0027	1.0002	1.0012		.9992	.9983	.9992	.9982		1.0020
17		1.0024	1.0016	.9959	1.0001	1.0031	1.0004	1.0004	1.0044	.9984	.9984	.9975	.9974		1.0022
18		1.0040		.9979	1.0011	1.0010	1.0030	1.0011		.9981	.9991	.9975	.9979		1.0023
19			.9980	.9950	1.0005	.9996	1.0010	1.0000	1.0215	.9971	.9971	.9961	.9964		1.0004
20		.9982	1.0020	.9966	1.0002	1.0039	1.0012	1.0012		.9992	.9992	.9982	.9982		1.0024
21		.9944	.9986	.9953	1.0052	1.0004	.9983	1.0003	1.0216	.9973	.9963	.9973	.9966		1.0011
MEAN		.9997	1.0000	.9963	1.0022	1.0019	1.0015	1.0007	1.0119	.9984	.9981	.9974	.9975		1.0017
S.D.		.0026	.0009	.0007	.0015	.0010	.0015	.0004	.0058	.0006	.0008	.0008	.0006		.0007

27	MEAN	S.D.
1019.0	1021.61	3.408
1020.0	1021.66	2.505
1019.0	1021.66	4.347
1018.0	1019.63	2.291
1017.0	1019.81	3.324
1019.0	1020.14	2.240
1018.0	1020.56	4.105
1016.0	1017.38	1.993
1017.0	1019.63	3.497
1018.0	1019.34	2.341
1017.0	1019.26	2.959
1017.0	1018.68	2.134
1017.0	1019.36	3.865
1018.0	1018.85	2.012
1018.0	1019.50	5.137
1018.0	1018.77	1.916
1017.0	1018.59	2.499
1019.0	1019.92	2.382
1019.0	1021.96	6.882
1017.0	1017.52	2.118
1019.0	1021.74	6.937
.9974		
.9984		
.9974		
.9984		
.9972		
.9989		
.9975		
.9986		
.9974		
.9987		
.9978		
.9984		
.9977		
.9992		
.9985		
.9992		
.9984		
.9991		
.9971		
.9992		
.9973		
.9982		
.0007		

TABLE 4-4

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980  
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																								
		3	5	7	8	10	11	13	16	17	18	20	24	25	26											
1	13:10:00	1013.0	1008.0	1004.6	1011.0	1010.2	1011.0	1010.0	1021.6	1007.0	1008.0	1007.0	1006.2		1008.8											
2	13:10:30	1010.0	1008.2	1003.8	1011.8	1010.3	1009.0	1010.0		1007.0	1007.0	1007.0	1005.6		1008.4											
3	13:11:00	1008.0	1006.9	1002.1	1011.0	1008.7	1007.0	1008.0	1021.6	1006.0	1004.0	1007.0	1004.2		1006.9											
4	13:11:30	1002.0	1002.3	998.7	1005.0	1004.8	1005.0	1005.0		1002.0	1001.0	1002.0	1000.8		1003.5											
5	13:12:00	1005.0	1000.6	997.0	1002.7	1003.1	1003.0	1003.0	1014.2	1000.0	999.0	1000.0	999.0		1001.4											
6	13:12:30	1003.0	1001.7	997.0	1005.7	1003.7	1003.0	1003.0		1001.0	1000.0	1001.0	999.0		1001.9											
7	13:13:00	1006.0	1003.2	998.7	1004.2	1005.2	1005.0	1005.0	1017.4	1002.0	1001.0	1002.0	1000.1		1003.2											
8	13:13:30	1006.0	1008.2	998.7	1006.5	1005.4	1006.0	1005.0		1002.0	1001.0	1002.0	1000.4		1003.1											
9	13:14:00	1003.0	1002.4	998.7	1003.5	1004.2	1004.0	1004.0	1010.9	1001.0	1000.5	1001.0	1000.1		1002.6											
10	13:14:30	1001.0	1000.0	997.9	1003.5	1002.1	1002.0	1002.0		1000.0	998.0	1000.0	998.2		1001.2											
11	13:15:00	1005.0	1002.5	997.0	997.4	1004.6	1003.0	1003.0	1007.8	1000.0	999.0	999.0	998.7		1001.7											
12	13:15:30	1006.0	1001.7	997.9	1004.2	1004.2	1003.0	1004.0		1001.0	999.5	1000.0	999.4		1002.3											
13	13:16:00	1001.0	1003.3	998.7	1005.0	1005.7	1003.0	1005.0	1009.6	1002.0	1001.0	1004.0	1000.3		1003.2											
14	13:16:30	1003.4	1003.4	1000.4	1006.5	1006.1	1003.0	1006.0		1003.0	1001.0	1004.0	1001.8		1005.0											
15	13:17:00	1005.0	1004.2	1001.3	1004.2	1006.8	1004.0	1006.0		1004.0	1001.0	1004.0	1001.9		1005.0											
16	13:17:30	1001.0	1004.9	1000.4	1006.5	1007.3	1004.0	1005.0		1004.0	1002.0	1004.0	1001.8		1005.1											
17	13:18:00	1002.0	1004.9	1000.4	1010.3	1007.1	1004.0	1006.0	1013.6	1003.0	1002.0	1003.0	1001.8		1004.7											
18	13:18:30	1006.0	1004.6	1000.4	1002.0	1006.3	1005.0	1006.0		1003.0	1001.0	1003.0	1001.8		1004.7											
19	13:19:00	1001.0	1002.9	1000.4	1005.7	1005.2	1004.0	1006.0	1019.4	1003.0	1001.0	1004.0	1001.5		1004.6											
20	13:19:30	1002.0	1003.7	1000.4	1006.5	1005.7	1004.0	1006.0		1003.0	1002.0	1004.0	1002.0		1005.0											
21	13:20:00	1006.0	1003.3	999.6	1006.5	1005.0	1004.0	1005.0	1014.5	1002.0	1001.0	1002.0	1001.1		1004.2											
		1	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034	10034											
1		1.0034	.9985	.9951	1.0015	1.0007	1.0015	1.0005	1.0120	.9975	.9985	.9975	.9967		.9993											
2		1.0019	1.0002	.9958	1.0037	1.0022	1.0009	1.0019		.9980	.9990	.9990	.9976		1.0004											
3		1.0004	.9993	.9946	1.0034	1.0011	.9994	1.0004	1.0139	.9984	.9964	.9994	.9966		.9993											
4		.9994	.9997	.9961	1.0024	1.0022	1.0024	1.0024		.9994	.9984	.9994	.9982		1.0009											
5		1.0030	.9986	.9951	1.0007	1.0011	1.0010	1.0010	1.0122	.9980	.9970	.9980	.9970		.9994											
6		1.0015	1.0002	.9955	1.0042	1.0022	1.0015	1.0015		.9995	.9985	.9995	.9975		1.0004											
7		1.0021	.9993	.9948	1.0003	1.0013	1.0011	1.0011	1.0135	.9981	.9971	.9981	.9962		.9993											
8		1.0029	1.0001	.9956	1.0034	1.0023	1.0019	1.0019		.9989	.9979	.9989	.9973		1.0000											
9		1.0004	.9958	.9961	1.0009	1.0016	1.0014	1.0014	1.0083	.9984	.9979	.9984	.9975		1.0000											
10		1.0006	.9996	.9975	1.0031	1.0017	1.0016	1.0016		.9996	.9976	.9996	.9978		1.0008											
11		1.0037	1.0012	.9957	.9961	1.0033	1.0017	1.0017	1.0065	.9987	.9977	.9987	.9974		1.0004											
12		1.0042	.9999	.9961	1.0024	1.0024	1.0012	1.0022		.9992	.9977	.9992	.9976		1.0035											
13		.9979	1.0002	.9956	1.0019	1.0024	.9999	1.0019	1.0065	.9989	.9979	.9989	.9972		1.0001											
14			.9998	.9968	1.0029	1.0025	.9994	1.0024		.9994	.9974	.9994	.9982		1.0014											
15		1.0011	1.0003	.9974	1.0003	1.0029	1.0001	1.0021		1.0001	.9971	1.0001	.9980		1.0011											
16		.9972	1.0011	.9966	1.0027	1.0035	1.0002	1.0012		1.0002	.9982	1.0002	.9980		1.0013											
17		.9973	1.0002	.9957	1.0056	1.0024	.9993	1.0013	1.0089	.9983	.9973	.9983	.9971		1.0000											
18		1.0024	1.0008	.9968	.9984	1.0027	1.0014	1.0024		.9994	.9974	.9994	.9982		1.0011											
19		.9966	.9985	.9960	1.0013	1.0008	.9996	1.0016	1.0150	.9986	.9966	.9996	.9971		1.0002											
20		.9984	1.0001	.9960	1.0029	1.0021	1.0004	1.0024		.9994	.9984	.9994	.9984		1.0014											
21		1.0020	.9993	.9956	1.0025	1.0010	1.0000	1.0010	1.0104	.9980	.9970	.9980	.9971		1.0002											
MEAN		1.0008	.9998	.9960	1.0019	1.0020	1.0008	1.0016	1.0107	.9989	.9977	.9991	.9975		1.0004											
S.D.		.0023	.0007	.0008	.0021	.0008	.0010	.0006	.0031	.0007	.0007	.0010	.0006		.0007											

27	MEAN	S.D.
1007.0	1009.53	4.137
1006.5	1008.05	2.190
1004.8	1007.59	4.607
1001.5	1002.58	1.965
999.4	1001.96	4.129
999.8	1001.52	2.265
1001.4	1003.89	4.431
1001.3	1003.12	2.483
1000.3	1002.59	2.944
999.2	1000.39	1.765
999.6	1001.31	3.160
1000.6	1001.83	2.368
1001.3	1003.08	2.740
1002.8	1003.58	2.804
1003.1	1003.88	1.714
1003.0	1003.77	2.067
1002.6	1004.67	2.618
1002.7	1003.56	1.978
1002.6	1004.38	4.684
1003.0	1003.64	1.814
1002.2	1004.03	3.627
.9975		
.9985		
.9972		
.9989		
.9974		
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.0007		



TABLE 4-7

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	
1	10:45:00	968.0	968.0	964.5	970.4	970.4	970.0	969.3	982.3	967.0	968.0	968.0	966.4	966.7	969.3	
2	10:45:30	972.0	968.7	965.4	969.7	971.2	971.0	969.5	985.7	967.0	969.0	968.0	966.5	966.7	969.4	
3	10:46:00	972.0	968.9	965.4	969.7	970.9	972.0	970.5	985.7	967.0	969.5	969.0	967.3	967.7	970.2	
4	10:46:30	972.0	968.7	965.4	969.7	971.1	970.0	970.3	985.7	967.0	969.0	969.0	966.9	966.6	969.8	
5	10:47:00	973.0	969.3	965.4	965.9	971.5	971.3	970.4	973.2	967.0	969.0	969.0	966.8	966.6	969.9	
6	10:47:30	973.0	969.5	966.2	970.4	972.2	970.0	970.8	973.2	968.0	969.0	970.0	967.0	967.5	970.2	
7	10:48:00	973.0	970.4	966.2	970.4	972.9	971.0	971.2	969.2	968.0	970.0	970.0	967.7	968.5	970.9	
8	10:48:30	972.0	970.5	967.1	970.4	973.2	971.0	971.8	974.1	968.0	970.0	971.0	968.3	968.4	971.3	
9	10:49:00	975.0	971.1	967.9	971.2	973.3	972.0	972.5	974.1	969.0	971.0	971.0	968.5	968.4	971.7	
10	10:49:30	972.5	970.8	967.9	971.9	973.2	972.0	972.3	974.1	969.0	971.0	971.0	968.7	968.4	971.9	
11	10:50:00	973.0	970.2	966.2	969.7	972.4	970.0	971.4	982.3	968.0	969.0	971.0	967.4	967.3	970.6	
12	10:50:30	974.0	970.7	967.9	970.4	972.7	971.0	972.6	982.3	969.0	970.0	972.0	968.4	968.3	971.7	
13	10:51:00	974.0	971.3	967.9	968.9	973.4	972.0	972.1	981.3	969.0	971.0	971.0	968.8	968.2	971.4	
14	10:51:30	975.0	971.5	967.9	972.7	972.9	973.0	971.9	981.3	969.0	970.0	971.0	968.2	969.2	971.6	
15	10:52:00	976.0	971.4	968.8	972.7	973.4	973.0	972.8	978.2	970.0	971.0	972.0	967.3	969.1	972.3	
16	10:52:30	976.0	971.5	967.9	973.4	973.8	972.0	973.0	970.7	970.0	971.0	972.0	969.3	969.1	972.3	
17	10:53:00	972.0	971.9	967.9	971.9	973.5	973.0	973.0	970.7	970.0	971.0	972.0	969.3	969.1	972.3	
18	10:53:30	962.0	973.7	970.5	968.9	975.8	974.0	974.2	974.2	971.0	972.0	973.0	970.6	971.0	973.9	
19	10:54:00	978.5	974.7	972.1	976.4	976.4	976.0	975.8	962.9	972.0	974.0	975.0	972.1	972.0	975.4	
20	10:54:30	979.0	975.2	971.3	971.2	977.2	977.0	976.2	962.9	973.0	974.0	975.0	972.2	971.9	975.6	
21	10:55:00	979.0	975.0	972.1	974.2	976.9	976.0	975.7	980.4	973.0	974.0	975.0	972.2	971.9	975.4	
1		.9939	.9989	.9953	1.0014	1.0014	1.0010	1.0002	1.0137	.9979	.9989	.9989	.9973	.9976	1.0002	
2		1.0034	1.0000	.9966	1.0010	1.0026	1.0024	1.0008		.9982	1.0003	.9993	.9977	.9979	1.0007	
3		1.0018	.9986	.9950	.9994	1.0006	1.0018	1.0002	1.0159	.9966	.9992	.9987	.9969	.9973	.9999	
4		1.0033	.9999	.9965	1.0009	1.0023	1.0012	1.0015		.9981	1.0002	1.0002	.9980	.9977	1.0010	
5		1.0040	1.0002	.9962	.9967	1.0025	1.0020	1.0013	1.0042	.9978	.9999	.9999	.9976	.9974	1.0008	
6		1.0037	1.0001	.9966	1.0010	1.0028	1.0006	1.0014		.9985	.9995	1.0006	.9975	.9980	1.0008	
7		1.0032	1.0005	.9962	1.0005	1.0031	1.0011	1.0013	.9993	.9980	1.0001	1.0001	.9977	.9986	1.0010	
8		1.0019	1.0003	.9968	1.0002	1.0023	1.0008	1.0017		.9978	.9998	1.0008	.9973	.9982	1.0012	
9		1.0040	1.0000	.9967	1.0001	1.0023	1.0009	1.0014	1.0031	.9978	.9999	.9999	.9973	.9972	1.0006	
10		1.0018	1.0000	.9970	1.0012	1.0025	1.0013	1.0016		.9982	1.0002	1.0002	.9979	.9976	1.0011	
11		1.0026	.9997	.9956	.9992	1.0020	.9995	1.0009	1.0122	.9974	.9985	1.0005	.9968	.9967	1.0001	
12		1.0035	1.0001	.9972	.9998	1.0021	1.0004	1.0020		.9983	.9994	1.0014	.9977	.9976	1.0011	
13		1.0027	.9999	.9964	.9974	1.0021	1.0006	1.0007	1.0102	.9975	.9996	.9996	.9973	.9967	1.0006	
14		1.0042	1.0006	.9968	1.0018	1.0020	1.0021	1.0010		.9980	.9990	1.0000	.9972	.9982	1.0004	
15		1.0042	.9995	.9968	1.0008	1.0015	1.0011	1.0009	1.0064	.9980	.9990	1.0001	.9952	.9971	1.0007	
16		1.0046	.9999	.9962	1.0019	1.0023	1.0005	1.0015		.9984	.9994	1.0005	.9977	.9975	1.0008	
17		1.0008	1.0007	.9965	1.0007	1.0023	1.0005	1.0018	.9995	.9987	.9998	1.0008	.9980	.9978	1.0011	
18		.9968	1.0016	.9983	.9967	1.0030	1.0019	1.0021		.9980	.9990	1.0009	.9984	.9988	1.0010	
19		1.0048	1.0009	.9932	1.0027	1.0027	1.0023	1.0020	.9888	.9981	1.0002	1.0012	.9982	.9981	1.0016	
20		1.0047	1.0008	.9968	.9967	1.0028	1.0026	1.0018		.9985	.9995	1.0005	.9977	.9974	1.0012	
21		1.0041	1.0003	.9971	.9992	1.0020	1.0011	1.0007	1.0056	.9980	.9990	1.0000	.9972	.9968	1.0004	
MEAN		1.0028	1.0001	.9966	1.0000	1.0023	1.0013	1.0013	1.0053	.9980	.9996	1.0002	.9975	.9976	1.0008	
S.D.		.0020	.0007	.0008	.0018	.0007	.0008	.0006	.0078	.0005	.0005	.0007	.0007	.0006	.0005	

27	MEAN	S. D.
967.6	969.06	4.002
967.8	968.71	1.933
968.5	970.29	4.644
968.2	968.64	1.855
968.5	969.10	2.450
968.5	969.45	1.914
969.0	969.89	1.860
969.5	970.18	1.737
970.0	971.11	2.106
970.1	970.76	1.690
968.0	970.49	3.788
969.9	970.61	1.843
970.1	971.40	3.309
969.8	970.96	2.054
970.7	971.93	2.760
970.4	971.55	2.144
970.8	971.23	1.604
972.1	972.12	2.044
973.8	973.61	3.589
973.7	974.46	2.401
973.8	974.97	2.440
.9985		
.9991		
.9982		
.9993		
.9994		
.9990		
.9991		
.9993		
.9989		
.9993		
.9983		
.9993		
.9907		
.9988		
.9987		
.9988		
.9994		
1.0000		
1.0000		
.9992		
.9988		
.9991		
.0005		

TABLE 4-8

FOURTH INTERCOMPARISON - NOVEMBER 10, 1980  
RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	26	26		
1	11:10:00	982.0	980.6	976.6	984.2	981.9	981.0	982.0	982.9	978.0	981.0	979.0	978.5	981.0	981.8				
2	11:10:30	981.0	980.3	975.8	984.2	981.5	980.0	979.9	977.0	976.0	979.0	978.0	977.3	980.0	980.1				
3	11:11:00	981.0	981.1	976.6	983.5	982.7	981.0	980.5	977.0	976.0	979.5	978.0	977.8	980.0	980.8				
4	11:11:30	982.3	982.3	977.4	985.0	983.8	981.0	981.2	977.0	976.0	980.5	979.0	978.5	981.0	981.6				
5	11:12:00	984.0	982.8	979.1	985.0	984.4	982.0	982.8	990.1	980.0	981.5	981.0	979.7	982.0	982.6				
6	11:12:30	985.0	983.7	980.0	985.0	985.2	984.0	983.7	990.1	980.0	982.0	981.0	981.0	983.0	983.7				
7	11:13:00	985.0	983.7	979.1	985.0	984.9	983.0	983.6	987.6	980.0	982.0	981.0	980.3	983.0	983.2				
8	11:13:30	985.0	983.7	979.1	980.5	984.7	983.0	983.0	991.7	980.0	982.0	981.0	980.3	982.0	983.1				
9	11:14:00	985.0	982.8	979.1	982.7	984.4	983.0	982.9	991.7	980.0	981.0	980.0	979.7	982.0	982.7				
10	11:14:30	983.0	984.1	980.0	986.5	984.8	982.0	983.6	997.0	980.0	982.0	981.0	980.5	983.0	983.5				
11	11:15:00	987.0	985.0	980.8	985.8	986.2	984.0	983.9	997.0	981.0	983.0	982.0	981.2	984.0	984.7				
12	11:15:30	986.0	984.4	980.8	988.9	986.3	985.0	984.0	1009.2	982.0	983.0	983.0	982.3	985.0	985.3				
13	11:16:00	973.0	984.7	980.8	987.3	986.8	985.0	985.2	1005.4	982.0	983.0	983.0	982.5	986.0	985.9				
14	11:16:30	985.0	985.7	981.7	988.0	987.4	984.0	985.7	1005.4	983.0	984.5	984.0	982.5	986.0	985.9				
15	11:17:00	986.0	985.7	981.7	988.0	987.4	985.0	986.7	987.3	982.0	984.0	983.0	981.9	985.0	985.0				
16	11:17:30	987.0	986.4	981.7	987.3	990.4	984.0	985.7	987.3	982.0	984.0	983.0	981.4	985.0	985.0				
17	11:18:00	987.0	985.4	980.8	987.3	986.4	984.0	985.1	993.9	982.0	983.5	983.0	980.6	984.0	983.9				
18	11:18:30	986.0	985.0	980.8	986.5	986.2	983.0	984.5	993.9	981.0	983.0	983.0	980.7	984.0	983.8				
19	11:19:00	986.5	983.7	980.0	987.3	985.1	981.0	984.5	992.3	981.0	983.0	982.0	980.7	984.0	983.8				
20	11:19:30	986.0	984.4	980.0	984.2	985.0	981.0	984.3	992.3	982.0	984.0	983.0	982.1	985.0	985.2				
21	11:20:00	988.0	985.7	981.7	985.8	986.8	984.0	985.4		982.0	984.0	983.0	982.1	985.0	985.2				
1		1.0013	.9999	.9958	1.0035	1.0012	1.0003	1.0013	1.0022	.9972	1.0003	.9982	.9977	1.0003	1.0011				
2		1.0016	1.0009	.9963	1.0049	1.0021	1.0006	1.0005	.9973	.9965	.9996	.9985	.9978	1.0006	1.0007				
3		1.0014	1.0015	.9969	1.0039	1.0031	1.0014	1.0008	.9973	.9963	.9998	.9983	.9981	1.0003	1.0012				
4		1.0023	1.0016	.9966	1.0043	1.0031	1.0002	1.0004	.9973	.9951	.9997	.9982	.9977	1.0002	1.0009				
5		1.0015	1.0002	.9965	1.0025	1.0019	.9994	1.0002	1.0077	.9974	.9989	.9984	.9971	.9994	1.0000				
6		1.0022	1.0009	.9971	1.0022	1.0024	1.0012	1.0009	1.0048	.9971	.9992	.9981	.9981	1.0002	1.0009				
7		1.0022	1.0008	.9961	1.0022	1.0020	1.0001	1.0007	1.0048	.9971	.9991	.9981	.9974	1.0001	1.0003				
8		1.0030	1.0016	.9970	.9984	1.0027	1.0009	1.0009	1.0093	.9979	.9999	.9989	.9982	.9999	1.0010				
9		1.0025	1.0003	.9965	1.0002	1.0019	1.0005	1.0004	1.0093	.9974	.9994	.9984	.9979	1.0004	1.0009				
10		1.0004	1.0016	.9974	1.0040	1.0023	.9994	1.0010	1.0128	.9974	.9994	.9984	.9979	1.0004	1.0009				
11		1.0026	1.0006	.9963	1.0014	1.0018	.9996	.9995	1.0128	.9965	.9995	.9985	.9967	.9996	.9998				
12		1.0021	1.0005	.9968	1.0051	1.0024	1.0011	1.0001	1.0245	.9970	.9991	.9980	.9977	1.0001	1.0008				
13		.9877	.9956	.9957	1.0023	1.0017	.9999	1.0001	1.0245	.9969	.9979	.9979	.9972	.9999	1.0002				
14		1.0006	1.0013	.9972	1.0036	1.0025	.9996	1.0013	1.0194	.9975	.9986	.9986	.9979	1.0004	1.0011				
15		.9997	.9994	.9954	1.0017	1.0011	.9977	.9994	1.0194	.9967	.9982	.9977	.9962	.9997	.9996				
16		1.0015	1.0009	.9962	1.0018	1.0050	.9995	1.0012	1.0194	.9975	.9985	.9985	.9976	1.0005	1.0007				
17		1.0025	1.0008	.9962	1.0028	1.0019	.9994	1.0012	1.0028	.9974	.9994	.9984	.9973	1.0004	1.0004				
18		1.0021	1.0011	.9968	1.0026	1.0023	.9990	1.0012	1.0101	.9980	.9995	.9990	.9974	1.0011	1.0007				
19		1.0025	.9997	.9959	1.0034	1.0011	.9970	1.0005	1.0101	.9970	.9990	.9990	.9966	1.0000	.9999				
20		1.0031	1.0014	.9970	1.0012	1.0020	.9980	1.0013	1.0101	.9980	1.0000	.9990	.9977	1.0010	1.0008				
21		1.0031	1.0007	.9967	1.0008	1.0019	.9990	1.0004	1.0074	.9970	.9920	.9980	.9971	1.0000	1.0002				
MEAN		1.0012	1.0007	.9965	1.0025	1.0022	.9997	1.0006	1.0089	.9971	.9992	.9982	.9974	1.0002	1.0005				
S.D.		.0032	.0007	.0005	.0016	.0008	.0011	.0004	.0078	.0007	.0006	.0006	.0005	.0005	.0005				

27	MEAN	S.D.
980.4	980.73	1.988
978.9	979.43	2.211
979.6	979.67	2.201
980.4	980.76	2.449
981.4	982.56	2.681
982.3	982.83	1.806
981.9	982.89	2.255
981.9	982.09	1.772
981.2	982.55	3.061
982.0	982.57	1.681
982.5	984.44	3.996
983.2	983.93	2.237
983.6	985.08	7.475
984.0	984.41	1.886
984.4	986.28	5.567
984.9	985.48	2.185
983.7	984.57	2.041
983.2	983.95	1.808
982.4	983.99	3.452
982.4	982.99	1.827
983.6	984.97	2.714
.9997		
.9995		
.9999		
.9996		
.9988		
.9995		
.9990		
.9998		
.9986		
.9994		
.9980		
.9993		
.9985		
.9996		
.9981		
.9994		
.9991		
.9992		
.9984		
.9994		
.9986		
.9991		
.0006		



27	MEAN	S.D.
988.6	990.02	2.491
988.5	989.90	2.012
989.3	989.85	1.614
990.2	991.11	1.820
990.5	991.87	2.997
990.4	991.87	2.518
990.1	991.97	3.180
990.2	991.44	2.666
990.7	992.15	3.704
990.4	990.49	1.906
989.5	990.29	2.187
989.9	990.63	2.306
989.6	990.63	2.468
989.5	990.27	2.419
989.0	989.85	2.713
989.7	990.34	2.272
989.5	990.73	3.481
989.0	989.90	2.692
989.3	990.89	3.560
989.7	991.63	3.741
989.9	992.51	5.083
9986		
9986		
9994		
9991		
9986		
9983		
9981		
9988		
9985		
9999		
9992		
9993		
9990		
9992		
9991		
9994		
9988		
9991		
9984		
9981		
9974		
9988		
0006		

TABLE 4-10

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		3	5	7	8	10	11	13	16	17	18	20	24	25	26			
1	12:55:00	990.0	987.6	983.3	986.9	989.9	988.0	988.0	986.0	987.5	987.0	984.9	986.0	986.1				
2	12:55:30	991.0	987.0	983.3	989.2	989.3	987.0	988.0	986.0	986.5	988.0	984.7	985.0	988.2				
3	12:56:00	989.0	983.9	979.9	985.4	986.2	984.0	985.1	994.1	983.5	985.0	982.1	983.0	985.7				
4	12:56:30	987.5	983.6	979.9	981.7	985.7	986.0	983.7	982.0	983.5	985.0	980.3	982.0	984.0				
5	12:57:00	987.0	981.8	978.2	983.9	984.2	985.0	983.1	1000.4	983.5	981.0	980.1	982.0	983.5				
6	12:57:30	984.5	982.1	978.2	983.9	984.8	983.0	982.3	982.3	981.5	981.0	979.5	981.0	982.8				
7	12:58:00	985.0	983.0	979.0	985.4	985.3	982.0	983.3	967.6	981.0	983.0	980.1	981.0	983.7				
8	12:58:30	985.0	982.1	979.0	982.4	985.1	982.0	983.4	982.0	980.5	982.0	980.0	981.0	983.6				
9	12:59:00	982.0	982.7	979.0	983.2	985.3	984.0	983.9	1019.1	982.0	982.5	980.8	982.0	984.1				
10	12:59:30	981.0	981.7	978.2	982.4	984.6	981.0	982.8	982.0	980.5	983.0	979.3	981.0	982.9				
11	13:00:00	981.0	982.6	979.0	983.2	985.3	981.0	983.6	955.4	983.0	984.0	979.9	981.0	983.6				
12	13:00:30	984.0	982.1	978.2	982.4	984.6	983.0	983.6	982.0	982.0	984.0	980.1	981.0	983.8				
13	13:01:00	980.0	982.3	978.2	981.7	984.6	982.0	983.1	978.5	982.0	983.0	979.8	981.0	983.4				
14	13:01:30	983.0	981.9	978.2	981.7	984.5	982.0	983.6	982.0	981.5	984.0	980.0	981.0	983.6				
15	13:02:00	984.0	982.1	978.2	983.2	985.0	983.0	982.9	1000.0	981.5	983.0	979.5	981.0	983.1				
16	13:02:30	985.0	982.5	978.2	983.2	984.8	985.0	982.9	998.9	982.0	983.0	979.8	981.0	983.1				
17	13:03:00	986.0	982.4	978.2	984.7	984.7	986.0	983.2	982.7	981.0	981.5	979.2	980.0	982.7				
18	13:03:30	983.0	981.8	978.2	982.4	984.7	986.0	982.7	981.0	981.5	982.0	979.2	980.0	982.7				
19	13:04:00	983.0	981.7	978.2	983.9	984.3	983.0	982.7	1005.6	982.0	981.5	979.2	980.0	983.1				
20	13:04:30	983.0	981.5	978.2	983.9	983.8	983.0	982.4	981.0	980.5	982.0	979.0	980.0	982.6				
21	13:05:00	984.0	981.2	977.3	983.9	983.2	982.0	981.7	969.2	981.0	980.5	978.2	980.0	982.0				
1		1.0029	1.0005	.9961	.9998	1.0028	1.0009	1.0009	.9988	1.0004	.9999	.9977	.9988	1.0010				
2		1.0039	.9995	.9961	1.0021	1.0022	.9999	1.0009	.9989	.9994	1.0009	.9975	.9978	1.0011				
3		1.0042	.9990	.9949	1.0005	1.0013	.9991	1.0002	1.0093	.9986	1.0001	.9972	.9981	1.0008				
4		1.0045	1.0005	.9968	.9986	1.0027	1.0009	1.0006	.9989	1.0004	.9999	.9972	.9989	1.0009				
5		1.0033	.9980	.9943	1.0001	1.0004	1.0013	.9993	1.0169	.9972	.9997	.9963	.9982	.9997				
6		1.0027	1.0002	.9962	1.0020	1.0030	1.0011	1.0004	.9981	.9994	.9991	.9976	.9991	1.0009				
7		1.0045	1.0015	.9974	1.0039	1.0038	1.0004	1.0010	.9858	.9994	1.0015	.9985	.9994	1.0022				
8		1.0029	.9999	.9968	1.0002	1.0030	.9998	1.0013	.9988	.9983	.9998	.9978	.9988	1.0015				
9		.9968	.9976	.9938	.9981	1.0002	.9989	.9988	1.0345	.9968	.9973	.9956	.9968	.9990				
10		.9994	1.0001	.9966	1.0008	1.0031	.9994	1.0013	1.0004	.9989	1.0015	.9977	.9994	1.0014				
11		1.0007	1.0023	.9986	1.0029	1.0050	1.0007	1.0033	.9745	1.0027	1.0001	1.0037	.9995	1.0033				
12		1.0017	.9999	.9957	1.0000	1.0023	1.0006	1.0012	.9996	.9996	1.0017	.9977	.9986	1.0014				
13		.9984	1.0007	.9965	1.0001	1.0031	1.0004	1.0015	.9968	1.0004	1.0009	1.0014	.9982	1.0018				
14		1.0009	.9998	.9960	.9996	1.0024	.9999	1.0015	1.0009	1.0009	1.0019	.9978	.9988	1.0015				
15		1.0007	.9988	.9948	.9999	1.0017	.9997	.9996	1.0170	.9982	.9981	.9997	.9976	.9998				
16		1.0026	1.0001	.9957	1.0003	1.0024	1.0022	1.0005	.9996	.9996	1.0001	1.0006	.9985	1.0006				
17		1.0022	.9984	.9943	1.0009	1.0009	1.0022	.9994	1.0153	.9982	.9987	.9992	.9971	.9993				
18		1.0011	.9999	.9962	1.0005	1.0028	1.0042	1.0008	.9991	.9991	.9996	1.0001	.9981	1.0008				
19		.9995	.9982	.9946	1.0004	1.0008	.9995	.9992	1.0225	.9985	.9995	.9956	.9964	.9996				
20		1.0015	.9999	.9966	1.0024	1.0023	1.0015	1.0008	.9994	.9994	.9989	1.0004	.9974	1.0010				
21		1.0036	1.0008	.9968	1.0035	1.0028	1.0016	1.0013	.9885	1.0006	1.0001	1.0016	.9977	1.0016				
MEAN		1.0018	.9998	.9959	1.0003	1.0023	1.0007	1.0007	1.0061	.9992	.9993	1.0004	.9973	1.0009				
S.D.		.0021	.0011	.0012	.0015	.0011	.0013	.0010	.0169	.0013	.0009	.0015	.0010	.0010				

27	MEAN	S.D.
986.7	987.14	1.780
986.6	987.13	2.033
983.6	984.90	3.269
982.2	983.08	1.996
981.8	983.77	5.071
981.9	981.89	1.886
982.2	981.57	4.353
982.3	982.17	1.737
983.1	985.11	9.520
981.6	981.57	1.618
982.3	980.36	7.115
982.3	982.38	1.731
981.9	981.60	1.883
981.9	982.14	1.685
981.3	983.32	4.919
981.4	982.43	1.963
981.6	983.81	4.688
981.6	981.91	2.020
981.2	983.49	6.349
981.1	981.57	1.722
980.3	980.43	3.620
.9996		
.9995		
.9987		
.9991		
.9988		
1.0000		
1.0006		
1.0001		
.9980		
1.0000		
1.0020		
.9999		
1.0003		
.9998		
.9979		
.9990		
.9978		
.9997		
.9977		
.9995		
.9999		
.9994		
.0011		



TABLE 4-11

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	27	28		
1	13:16:00	971.0	973.1	968.9	974.5	976.2	975.0	974.0	974.5	973.0	973.0	972.0	971.2	972.0	972.0	972.0	972.0	972.0	975.3
2	13:16:30	978.0	975.3	970.6	974.5	977.5	976.0	975.3	974.5	974.0	974.0	974.0	972.5	973.0	973.0	973.0	973.0	973.0	976.6
3	13:17:00	979.0	974.4	970.6	976.7	977.2	977.0	975.2	976.1	974.0	974.0	974.0	972.8	973.0	973.0	973.0	973.0	974.0	976.4
4	13:17:30	972.0	973.4	969.8	971.4	976.2	975.0	974.0	974.0	973.0	973.0	972.0	971.2	972.0	972.0	972.0	972.0	973.0	975.1
5	13:18:00	975.0	972.2	968.1	972.2	974.7	974.0	973.7	985.1	972.0	973.0	971.0	970.6	971.0	971.0	971.0	971.0	972.0	974.9
6	13:18:30	975.0	970.8	967.2	972.2	973.6	972.0	971.4	975.1	970.0	971.0	970.0	968.6	969.0	969.0	969.0	969.0	972.6	973.5
7	13:19:00	976.0	972.0	968.1	972.2	974.8	974.0	971.7	975.1	970.0	971.0	970.0	969.6	970.0	970.0	970.0	970.0	973.5	973.5
8	13:19:30	977.0	972.4	968.1	973.7	974.4	974.0	972.2	975.1	970.0	971.0	970.0	969.6	970.0	970.0	970.0	970.0	973.6	973.6
9	13:20:00	975.0	967.7	964.7	979.2	970.5	972.0	970.1	975.1	969.0	969.0	967.0	967.1	969.0	969.0	969.0	969.0	970.8	970.8
10	13:20:30	968.0	962.6	959.6	962.4	965.4	966.0	964.7	975.1	963.0	963.0	962.0	961.3	962.0	962.0	962.0	962.0	965.2	965.2
11	13:21:00	967.0	963.6	959.6	964.6	964.0	968.0	964.5	975.1	963.0	963.0	961.0	961.3	962.0	962.0	962.0	962.0	965.1	965.1
12	13:21:30	971.0	967.7	964.7	965.4	970.5	971.0	968.0	975.1	966.0	966.0	965.0	965.7	966.0	966.0	966.0	966.0	969.5	969.5
13	13:22:00	974.0	969.7	966.4	972.2	972.7	972.0	970.0	967.3	968.0	968.0	967.0	967.5	968.0	968.0	968.0	968.0	971.5	971.5
14	13:22:30	974.0	968.7	965.5	970.7	971.8	973.0	969.5	975.1	967.0	967.0	966.0	966.4	967.0	967.0	967.0	967.0	970.2	970.2
15	13:23:00	967.0	968.0	965.5	968.4	972.4	972.0	968.6	971.4	967.0	967.0	965.0	966.4	967.0	967.0	967.0	967.0	970.2	970.2
16	13:23:30	972.0	969.7	965.5	970.7	972.6	970.0	969.0	975.1	967.0	967.0	966.0	966.5	967.0	967.0	967.0	967.0	970.5	970.5
17	13:24:00	973.0	970.5	966.4	970.7	973.3	971.0	969.0	975.1	968.0	968.0	967.0	967.4	968.0	968.0	968.0	968.0	971.3	971.3
18	13:24:30	974.0	971.1	966.4	96 7	973.4	971.0	970.3	975.1	968.0	968.0	967.0	967.7	968.0	968.0	968.0	968.0	971.7	971.7
19	13:25:00	978.0	971.5	967.2	97 3	973.8	973.0	971.2	972.3	969.0	969.0	968.0	969.6	970.0	970.0	970.0	970.0	972.3	972.3
20	13:25:30	976.0	971.4	967.2	970.0	973.8	974.0	971.3	972.3	969.0	969.0	968.0	969.6	970.0	970.0	970.0	970.0	972.7	972.7
21	13:26:00	977.0	970.5	966.4	971.4	973.1	973.0	970.5	988.0	968.0	968.0	967.0	967.9	968.0	968.0	968.0	968.0	971.7	971.7
1		9978	1.0000	9957	1.0014	1.0032	1.0019	1.0009	1.0014	9999	9999	9980	9980	9980	9980	9980	9980	1.0022	1.0022
2		1.0034	1.0006	9958	9998	1.0029	1.0013	1.0006	9993	9993	9993	9993	9977	9982	9982	9982	9982	1.0019	1.0019
3		1.0040	9993	9954	1.0016	1.0021	1.0019	1.0001	1.0010	9989	9989	9978	9981	9989	9989	9989	9989	1.0013	1.0013
4		9989	1.0003	9966	9983	1.0032	1.0020	1.0009	9999	9999	1.0009	9989	9981	9989	9989	9989	9989	1.0021	1.0021
5		1.0018	9989	9947	9973	1.0014	1.0007	1.0004	1.0121	9987	9987	9976	9972	9987	9987	9987	9987	1.0017	1.0017
6		1.0042	9999	9962	1.0013	1.0028	1.0011	1.0005	9991	9991	1.0001	9980	9974	9980	9980	9980	9980	1.0018	1.0018
7		1.0051	1.0001	9960	1.0017	1.0025	1.0020	1.0002	1.0032	9979	9979	9969	9975	9975	9975	9975	9975	1.0016	1.0016
8		1.0052	9976	9945	1.0095	1.0005	1.0021	1.0001	9990	9990	9990	9969	9970	9980	9980	9980	9980	1.0016	1.0016
9		1.0036	1.0000	9959	1.0011	1.0025	1.0004	1.0010	9990	9990	9986	9986	9978	9986	9986	9986	9986	1.0019	1.0019
10		1.0037	1.0003	9972	9979	1.0031	1.0037	1.0006	9976	9985	9985	9973	9977	9982	9982	9982	9982	1.0016	1.0016
11		1.0045	1.0001	9967	1.0027	1.0032	1.0025	1.0004	9976	9985	9985	9973	9977	9982	9982	9982	9982	1.0019	1.0019
12		1.0051	9996	9963	1.0017	1.0028	1.0021	1.0004	9976	9985	9985	9973	9977	9982	9982	9982	9982	1.0012	1.0012
13		9986	1.0004	9970	1.0000	1.0042	1.0037	1.0002	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0019	1.0019
14		1.0033	1.0009	9965	1.0019	1.0039	1.0012	1.0002	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0012	1.0012
15		1.0034	1.0008	9964	1.0010	1.0035	1.0013	1.0004	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0019	1.0019
16		1.0062	1.0011	9963	9999	1.0035	1.0010	1.0003	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0017	1.0017
17		1.0070	1.0003	9959	1.0019	1.0024	1.0019	1.0000	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0016	1.0016
18		1.0070	1.0003	9959	1.0019	1.0024	1.0019	1.0000	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0016	1.0016
19		1.0070	1.0003	9959	1.0019	1.0024	1.0019	1.0000	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0016	1.0016
20		1.0054	1.0007	9963	9992	1.0031	1.0033	1.0004	1.0031	9986	9986	9965	9973	9980	9980	9980	9980	1.0016	1.0016
21		1.0057	9990	9968	9999	1.0016	1.0015	9990	1.0170	9964	9964	9954	9963	9974	9974	9974	9974	1.0020	1.0020
MEAN		1.0036	1.0000	9960	1.0008	1.0027	1.0022	1.0004	1.0041	9985	9985	9975	9976	9987	9987	9987	9987	1.0016	1.0016
S.D.		.0025	.0008	.0007	.0025	.0009	.0011	.0005	.0043	.0006	.0010	.0009	.0005	.0005	.0005	.0005	.0005	.0005	.0005

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27	MEAN	S. D.
973.1	973.12	1.906
974.3	974.72	1.971
974.3	975.11	2.110
973.0	973.00	1.727
972.4	973.29	3.772
970.2	970.90	2.106
971.2	971.95	2.305
971.2	972.01	2.410
968.9	970.00	3.611
963.0	963.37	2.211
963.1	963.56	2.660
967.4	967.56	2.236
969.0	969.62	2.357
960.1	969.06	2.606
968.0	968.30	2.261
968.4	968.05	2.106
969.2	969.71	2.027
969.5	970.00	2.576
970.4	971.20	2.607
970.9	970.75	2.660
970.0	971.50	5.316
1.0000		
.9996		
.9992		
.9999		
.9991		
.9993		
.9992		
.9992		
.9989		
.9996		
.9995		
.9999		
.9996		
.9990		
.9996		
.9995		
.9995		
.9995		
.9992		
1.0002		
.9985		
.9994		
.0006		

TABLE 4-12

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	
1	13:36:00	971.0	969.2	965.2	971.6	970.7	970.0	969.3	980.2	967.0	968.0	967.0	966.9	968.0	969.5	
2	13:36:30	974.0	971.1	966.9	973.1	973.4	971.0	971.9		970.0	971.0	969.0	969.0	970.0	972.2	
3	13:37:00	973.0	970.8	966.9	970.8	972.9	971.0	971.4	982.0	970.0	970.0	969.0	969.0	970.0	971.8	
4	13:37:30	973.0	969.2	966.1	971.6	971.5	969.0	970.9		969.0	969.0	968.0	967.7	969.0	970.9	
5	13:38:00	971.0	967.1	964.4	967.1	969.7	969.0	969.2	968.9	967.0	968.0	966.0	966.1	968.0	969.5	
6	13:38:30	972.0	968.0	965.2	969.3	970.8	970.0	968.0		966.0	967.0	966.0	966.2	967.0	969.2	
7	13:39:00	973.0	968.0	964.4	970.8	970.7	970.0	969.0	978.0	966.0	967.0	966.0	966.3	968.0	969.1	
8	13:39:30	974.0	968.7	966.1	971.6	971.3	971.0	970.2		967.0	969.0	967.0	967.2	969.0	970.2	
9	13:40:00	974.0	970.0	966.1	973.1	972.7	971.0	970.0	978.0	967.0	969.0	967.0	967.3	969.0	970.3	
10	13:40:30	975.0	972.5	968.6	974.6	974.6	974.0	972.9		970.0	971.0	970.0	970.1	972.0	973.2	
11	13:41:00	976.0	970.7	966.9	967.8	973.2	972.0	972.2	987.7	969.0	970.0	969.0	969.0	972.0	972.2	
12	13:41:30	974.0	969.4	966.1	971.6	971.8	970.0	970.6		968.0	967.5	968.0	967.5	969.0	970.9	
13	13:42:00	972.0	968.3	964.4	967.6	970.6	968.0	969.0	990.0	966.0	967.0	966.0	965.9	968.0	969.3	
14	13:42:30	964.0	967.0	963.5	968.6	969.3	967.0	967.4		965.0	965.5	965.0	964.3	967.0	967.7	
15	13:43:00	972.0	970.0	966.1	971.6	972.0	968.0	969.3	981.1	967.0	968.0	967.0	966.8	969.0	970.2	
16	13:43:30	973.0	968.3	965.2	969.3	971.0	969.0	969.7		967.0	967.0	967.0	966.8	969.0	969.9	
17	13:44:00	972.0	967.2	964.4	968.6	970.5	968.0	968.8	976.1	967.0	968.0	966.0	965.5	968.0	968.9	
18	13:44:30	971.0	966.6	963.5	967.1	969.0	968.0	967.5		965.0	965.0	965.0	964.5	967.0	967.8	
19	13:45:00	971.0	965.7	963.5	967.8	968.1	968.0	967.6	973.6	965.0	965.0	965.0	964.5	967.0	967.6	
20	13:45:30	971.0	965.8	962.7	967.8	968.5	967.0	966.9		964.0	964.5	964.0	964.0	966.0	967.4	
21	13:46:00	970.0	964.8	962.7	964.8	967.8	965.0	966.3	973.6	964.0	963.0	964.0	963.2	966.0	966.9	
1		1.0016	.9997	.9956	1.0022	1.0013	1.0004	.9998	1.0111	.9975	.9985	.9975	.9974	.9985	1.0001	
2		1.0031	1.0002	.9958	1.0022	1.0025	1.0001	1.0010		.9990	1.0001	.9980	.9980	.9996	1.0013	
3		1.0018	.9995	.9955	.9995	1.0017	.9998	1.0004	1.0111	.9987	.9987	.9977	.9973	.9987	1.0006	
4		1.0035	.9996	.9964	1.0021	1.0020	.9994	1.0013		.9994	.9994	.9983	.9980	.9994	1.0013	
5		1.0032	.9991	.9963	.9991	1.0018	1.0011	1.0013	1.0010	.9990	1.0001	.9980	.9981	1.0001	1.0016	
6		1.0040	.9999	.9970	1.0012	1.0028	1.0020	1.0007		.9978	.9989	.9978	.9980	.9989	1.0011	
7		1.0042	.9990	.9951	1.0019	1.0018	1.0011	1.0000	1.0093	.9969	.9980	.9969	.9973	.9990	1.0001	
8		1.0046	.9993	.9966	1.0023	1.0020	1.0017	1.0008		.9975	.9996	.9975	.9978	.9996	1.0000	
9		1.0039	.9998	.9957	1.0030	1.0025	1.0008	.9998	1.0080	.9967	.9987	.9967	.9970	.9987	1.0001	
10		1.0029	1.0003	.9963	1.0025	1.0025	1.0019	1.0007		.9978	.9988	.9978	.9979	.9998	1.0011	
11		1.0042	.9988	.9948	.9958	1.0013	1.0001	1.0003	1.0162	.9970	.9980	.9970	.9978	1.0001	1.0003	
12		1.0046	.9998	.9964	1.0021	1.0023	1.0004	1.0011		.9984	.9979	.9984	.9979	.9994	1.0014	
13		1.0028	.9990	.9950	.9162	1.0014	.9987	.9997	1.0222	.9967	.9977	.9967	.9965	.9987	1.0001	
14		.9977	1.0008	.9971	1.0024	1.0031	1.0008	1.0012		.9987	.9992	.9987	.9980	1.0008	1.0015	
15		1.0023	1.0002	.9962	1.0015	1.0023	.9982	.9995	1.0117	.9971	.9982	.9971	.9969	.9992	1.0004	
16		1.0045	.9996	.9964	1.0007	1.0024	1.0004	1.0011		.9983	.9983	.9983	.9981	1.0004	1.0013	
17		1.0038	.9989	.9964	1.0003	1.0023	.9997	1.0005	1.0080	.9986	.9973	.9976	.9971	.9997	1.0006	
18		1.0045	.9999	.9967	1.0004	1.0024	1.0014	1.0009		.9983	.9983	.9983	.9978	1.0003	1.0012	
19		1.0041	.9986	.9963	1.0008	1.0011	1.0010	1.0008	1.0068	.9979	.9979	.9979	.9974	.9999	1.0006	
20		1.0050	.9997	.9965	1.0017	1.0025	1.0009	1.0008		.9978	.9983	.9978	.9978	.9999	1.0013	
21		1.0043	.9989	.9968	.9989	1.0020	.9991	1.0005	1.0080	.9981	.9971	.9981	.9973	1.0002	1.0011	
MEAN		1.0016	.9996	.9961	1.0008	1.0021	1.0004	1.0006	1.0103	.9980	.9985	.9977	.9975	.9995	1.0008	
S.D.		.0016	.0006	.0006	.0020	.0095	.0010	.0005	.0054	.0008	.0008	.0006	.0005	.0007	.0005	

27	MEAN	S.D.
968.1	969.45	3.455
970.7	970.95	1.927
970.2	971.24	3.370
969.5	969.60	1.810
968.1	967.94	1.702
968.0	968.11	2.010
968.1	968.96	3.353
969.0	969.38	2.178
969.0	970.23	3.170
971.9	972.17	2.015
970.9	971.91	4.938
969.7	969.58	2.106
967.8	969.25	6.292
966.3	966.26	1.755
968.6	969.78	3.664
968.8	968.64	1.989
967.7	968.31	2.893
966.4	966.67	1.989
966.2	967.05	2.621
966.1	966.12	2.206
965.4	965.83	2.896
.9986		
.9997		
.9989		
.9999		
1.0002		
.9999		
.9991		
.9996		
.9987		
.9997		
.9990		
1.0001		
.9985		
1.0000		
.9988		
1.0002		
.9994		
.9997		
.9991		
1.0000		
.9996		
.9995		
.0006		

TABLE 4-13

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24						
1	13:58:00	960.0	958.2	953.3	958.2	959.6	959.0	957.5	966.0	956.0	956.0	957.0	954.8	956.0	957.8				
2	13:58:30	960.0	958.5	954.2	959.0	959.7	960.0	958.1	956.0	956.0	956.0	957.0	955.1	956.0	958.3				
3	13:59:00	960.0	958.0	953.3	958.2	959.8	960.0	958.4	972.0	957.0	956.0	958.0	955.3	956.0	958.5				
4	13:59:30	960.0	957.9	953.3	957.5	958.8	960.0	958.5		957.0	956.0	958.0	955.3	956.0	958.5				
5	14:00:00	959.0	957.9	953.3	957.5	959.4	959.0	957.8		956.0	956.5	957.0	955.0	957.0	958.2				
6	14:00:30	960.0	958.3	954.2	959.7	959.7	959.0	958.0		956.0	957.0	957.0	955.4	957.0	958.6				
7	14:01:00	960.0	959.0	954.2	962.8	959.9	960.0	957.8	967.9	956.0	957.5	957.0	955.5	957.0	958.7				
8	14:01:30	960.0	958.2	954.2	960.5	959.8	961.0	957.8		956.0	957.5	957.0	955.6	957.0	958.6				
9	14:02:00	958.0	957.8	953.3	958.2	958.7	960.0	956.8	965.4	955.0	956.0	955.0	954.4	956.0	957.4				
10	14:02:30	957.0	957.4	952.5	958.2	958.6	959.0	956.4		955.0	955.0	955.0	954.2	955.0	957.1				
11	14:03:00	956.0	956.4	951.6	962.0	958.0	957.0	955.0	963.9	953.0	954.0	954.0	953.2	954.0	956.2				
12	14:03:30	954.0	954.6	950.8	956.7	956.3	957.0	954.8		952.0	953.0	953.0	952.1	953.0	955.0				
13	14:04:00	956.0	955.6	951.6	962.8	957.4	959.0	955.9	942.9	954.0	954.0	954.0	953.7	955.0	956.7				
14	14:04:30	954.0	955.1	950.8	957.5	957.5	956.0	955.0		953.0	953.0	954.0	953.0	954.0	956.0				
15	14:05:00	954.0	954.7	949.9	957.5	956.7	956.0	954.3	965.4	953.0	952.0	953.0	952.4	953.0	955.3				
16	14:05:30	950.0	953.6	948.2	953.7	955.1	954.0	953.2		952.0	951.0	952.0	951.4	952.0	954.2				
17	14:06:00	952.0	952.7	948.2	956.7	955.0	954.0	952.5	962.3	951.0	950.0	952.0	950.8	951.0	953.5				
18	14:06:30	952.0	951.6	947.4	954.5	953.7	954.0	951.6		950.0	950.0	950.0	950.0	951.0	953.0				
19	14:07:00	951.0	951.8	947.4	953.2	953.9	955.0	951.3	959.8	950.0	950.0	950.0	949.6	950.0	952.2				
20	14:07:30	951.0	952.1	947.4	955.2	953.2	955.0	951.1		950.0	949.0	950.0	949.2	950.0	952.1				
21	14:08:00	951.0	950.9	947.4	953.7	952.3	954.0	950.3	959.4	949.0	949.5	949.0	948.7	950.0	951.4				
1		1.0024	1.0005	.9954	1.0005	1.0019	1.0013	.9998	1.0086	.9982	.9982	.9992	.9969	.9982	1.0001				
2		1.0026	1.0011	.9966	1.0016	1.0023	1.0026	1.0006		.9984	.9984	.9995	.9975	.9984	1.0009				
3		1.0015	.9994	.9945	.9996	1.0013	1.0015	.9998	1.0140	.9983	.9973	.9994	.9966	.9983	1.0000				
4		1.0027	1.0005	.9957	1.0001	1.0014	1.0027	1.0011		.9996	.9985	1.0006	.9978	.9985	1.0011				
5		1.0019	1.0008	.9960	1.0004	1.0023	1.0019	1.0007		.9988	.9993	.9992	.9977	.9998	1.0011				
6		1.0025	1.0007	.9964	1.0022	1.0022	1.0014	1.0004		.9983	.9993	.9993	.9977	.9993	1.0010				
7		1.0014	1.0003	.9953	1.0043	1.0013	1.0014	.9991	1.0096	.9972	.9988	.9982	.9967	.9982	1.0000				
8		1.0022	1.0003	.9962	1.0027	1.0020	1.0033	.9999		.9980	.9996	.9991	.9976	.9991	1.0005				
9		1.0009	1.0004	.9952	1.0011	1.0016	1.0029	.9996	1.0086	.9977	.9988	.9977	.9971	.9988	1.0002				
10		1.0009	1.0013	.9962	1.0022	1.0026	1.0030	1.0003		.9988	.9988	.9988	.9980	.9988	1.0010				
11		1.0001	1.0007	.9955	1.0064	1.0022	1.0011	.9990	1.0023	.9969	.9980	.9980	.9971	.9788	1.0003				
12		1.0000	1.0009	.9967	1.0029	1.0024	1.0032	1.0009		.9979	.9990	.9990	.9980	.9990	1.0011				
13		.9997	.9993	.9951	1.0069	1.0012	1.0029	.9996	1.0070	.9977	.9977	.9977	.9973	.9987	1.0005				
14		.9995	1.0006	.9941	1.0031	1.0031	1.0016	1.0005		.9984	.9984	.9995	.9984	.9995	1.0016				
15		.9993	1.0000	.9950	1.0029	1.0021	1.0013	.9996	1.0112	.9982	.9972	.9982	.9976	.9982	1.0006				
16		.9975	1.0013	.9957	1.0014	1.0029	1.0017	1.0009		.9996	.9986	.9996	.9996	.9996	1.0020				
17		.9991	.9999	.9951	1.0040	1.0022	1.0012	.9996	1.0099	.9980	.9970	.9991	.9978	.9980	1.0007				
18		1.0006	1.0002	.9952	1.0032	1.0026	1.0027	1.0002		.9985	.9985	.9985	.9985	.9985	1.0017				
19		.9991	1.0000	.9953	1.0035	1.0022	1.0033	.9994	1.0084	.9981	.9981	.9981	.9977	.9981	1.0004				
20		.9999	1.0011	.9941	1.0043	1.0022	1.0041	1.0000		.9989	.9978	.9989	.9989	.9989	1.0011				
21		.9999	.9998	.9941	1.0027	1.0013	1.0031	.9992	1.0087	.9978	.9983	.9978	.9975	.9989	1.0003				
MEAN		1.0006	1.0004	.9957	1.0027	1.0021	1.0023	1.0000	1.0094	.9983	.9984	.9989	.9976	.9988	1.0002				
S.D.		.0014	.0006	.0006	.0019	.0005	.0009	.0006	.0020	.0007	.0017	.0008	.0006	.0006	.0005				

27	MEAN	S.D.
956.6	957.73	2.905
956.9	957.49	1.873
957.4	958.60	4.124
957.0	957.41	1.839
956.7	957.16	1.654
957.0	957.64	1.723
957.1	958.69	3.324
957.1	957.88	1.961
955.7	957.18	2.896
955.3	956.12	1.854
954.4	955.93	3.333
953.2	953.98	1.068
955.0	956.24	3.199
954.2	954.51	1.848
953.5	954.71	3.533
952.3	952.34	1.832
951.5	952.88	3.324
951.0	951.41	1.938
950.3	951.83	3.055
950.0	951.09	2.236
949.8	951.09	2.928
.9988		
.9994		
.9987		
.9996		
.9995		
.9993		
.9983		
.9992		
.9985		
.9991		
.9984		
.9992		
.9987		
.9997		
.9987		
1.0000		
.9986		
.9996		
.9984		
.9989		
.9986		
.9990		
.0005		

TABLE 4-14

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

DATE 071581

PAGE

141

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																	
		3	5	7	8	10	11	13	16	17	18	20	24	25	26				
1	14:18:00	942.0	941.7	938.7	946.0	944.3	940.0	943.0	947.4	940.0	941.0	942.0	940.0	941.0	943.2				
2	14:18:30	942.0	940.3	937.8	942.2	943.1	940.0	941.7	947.4	939.0	940.0	940.0	939.3	940.0	941.9				
3	14:19:00	942.0	939.7	936.1	941.5	942.2	940.0	940.9	947.4	938.0	939.5	939.0	938.1	939.0	940.7				
4	14:19:30	941.0	939.1	936.1	940.0	942.0	940.0	940.5	947.4	938.0	939.0	939.0	937.5	939.0	940.4				
5	14:20:00	940.0	938.0	935.3	939.2	940.4	939.0	939.3	938.9	937.0	938.0	938.0	936.6	938.0	939.2				
6	14:20:30	939.0	938.3	934.4	936.9	940.5	938.0	938.9	937.0	936.0	937.0	937.0	936.3	937.0	939.0				
7	14:21:00	939.0	936.6	933.6	940.0	938.9	938.0	937.4	948.1	935.0	935.0	936.0	934.5	936.0	937.6				
8	14:21:30	936.0	935.4	932.7	935.4	938.1	937.0	936.5	940.5	934.0	935.0	935.0	934.0	935.0	936.4				
9	14:22:00	937.0	935.8	932.7	936.2	938.4	936.0	937.4	940.5	934.0	935.0	935.0	934.0	935.0	936.9				
10	14:22:30	936.0	935.2	931.9	936.9	937.5	935.0	936.6	940.5	934.0	935.0	935.0	933.1	934.0	935.7				
11	14:23:00	933.0	933.6	931.1	933.9	936.1	934.0	936.0	940.5	933.0	934.0	934.0	932.6	934.0	935.4				
12	14:23:30	935.0	933.5	930.2	933.2	936.2	932.0	935.6	940.5	933.0	933.0	935.0	932.2	933.0	935.1				
13	14:24:00	933.5	933.2	930.2	933.9	935.7	932.0	935.4	934.4	933.0	932.5	935.0	931.6	932.0	934.6				
14	14:24:30	933.0	931.9	928.5	930.9	934.6	931.0	934.4	934.4	932.0	931.0	934.0	930.7	932.0	933.6				
15	14:25:00	931.0	932.5	928.5	928.6	934.6	932.0	934.0	934.0	932.0	931.0	933.0	930.3	931.0	933.1				
16	14:25:30	931.0	930.7	928.5	927.1	934.2	929.0	933.6	934.0	932.0	930.5	933.0	929.5	930.0	932.4				
17	14:26:00	932.0	932.2	928.5	928.6	934.2	929.0	934.4	934.0	932.0	930.0	934.0	930.1	930.0	933.0				
18	14:26:30	933.0	931.9	928.5	931.7	934.5	930.0	934.3	931.3	932.0	930.5	933.0	930.2	931.0	933.2				
19	14:27:00	926.0	931.5	928.5	927.9	934.5	931.0	933.9	931.3	932.0	931.0	933.0	930.0	931.0	932.9				
20	14:27:30	933.0	931.1	928.5	934.7	933.0	930.0	934.0	931.0	931.0	931.0	933.0	930.1	931.0	932.4				
21	14:28:00	930.0	929.9	926.8	930.9	932.6	929.0	932.0	928.1	929.0	930.0	931.0	928.3	929.0	931.1				
1		.9999	.9996	.9964	1.0042	1.0023	.9978	1.0010	1.0056	.9978	.9988	.9999	.9578	.9988	1.0012				
2		1.0016	.9998	.9971	1.0018	1.0028	.9995	1.0013	.9984	.9984	.9995	.9995	.9987	.9995	1.0015				
3		1.0019	.9995	.9956	1.0014	1.0021	.9998	1.0007	1.0077	.9977	.9993	.9997	.9978	.9987	1.0005				
4		1.0018	.9998	.9966	1.0008	1.0029	1.0008	1.0013	.9986	.9986	.9997	.9997	.9981	.9997	1.0012				
5		1.0018	.9997	.9968	1.0010	1.0023	1.0008	1.0011	1.0007	.9986	.9997	.9997	.9982	.9997	1.0010				
6		1.0016	1.0009	.9967	.9994	1.0032	1.0006	1.0015	1.0116	.9974	.9974	.9985	.9988	.9995	1.0016				
7		1.0017	.9991	.9959	1.0027	1.0014	1.0006	1.0009	1.0016	.9987	.9997	.9987	.9982	.9997	1.0012				
8		1.0008	1.0002	.9973	1.0002	1.0030	1.0019	1.0013	1.0048	.9989	.9989	.9989	.9979	.9989	1.0010				
9		1.0011	.9998	.9965	1.0002	1.0026	1.0000	1.0018	1.0048	.9990	.9995	1.0001	.9980	.9990	1.0008				
10		1.0011	1.0003	.9967	1.0021	1.0027	1.0001	1.0018	1.0066	.9997	.9997	.9997	.9982	.9997	1.0012				
11		.9986	.9992	.9966	.9996	1.0019	.9997	1.0018	1.0066	.9986	.9997	.9997	.9982	.9997	1.0012				
12		1.0015	.9999	.9964	.9996	1.0028	.9983	1.0025	1.0012	.9994	.9994	1.0015	.9985	.9994	1.0016				
13		1.0002	.9999	.9967	1.0006	1.0027	.9988	1.0023	1.0012	.9997	.9997	1.0018	.9982	.9997	1.0014				
14		1.0010	.9998	.9962	.9987	1.0027	.9988	1.0025	1.0012	.9999	.9999	1.0018	.9985	.9999	1.0016				
15		.9993	1.0010	.9967	.9968	1.0031	1.0004	1.0026	1.0004	1.0004	.9993	1.0015	.9986	.9993	1.0016				
16		1.0002	.9999	.9975	.9960	1.0030	.9981	1.0030	1.0037	1.0002	.9997	1.0015	.9986	.9993	1.0016				
17		1.0007	1.0009	.9969	.9970	1.0030	.9975	1.0033	1.0033	1.0007	.9985	1.0028	.9986	.9992	1.0017				
18		1.0012	1.0001	.9998	.9998	1.0028	.9990	1.0026	1.0002	1.0002	.9986	1.0023	.9982	.9991	1.0014				
19		.9946	1.0005	.9973	.9966	1.0037	1.0000	1.0031	1.0003	1.0010	1.0000	1.0021	.9989	1.0000	1.0020				
20		1.0014	.9993	.9946	1.0032	1.0014	.9982	1.0025	.9982	.9992	.9992	1.0014	.9983	.9992	1.0007				
21		1.0002	1.0001	.9968	1.0012	1.0030	.9992	1.0024	.9982	.9992	1.0002	1.0013	.9984	.9992	1.0014				
MEAN		1.0006	1.0000	.9966	1.0001	1.0027	.9994	1.0019	1.0040	.9991	.9992	1.0006	.9983	.9992	1.0013				
S.D.		.0016	.0005	.0004	.0022	.0006	.0012	.0009	.0043	.0010	.0006	.0014	.0004	.0004	.0004				

27	MEAN	S.D.
941.0	942.09	2.372
939.8	940.51	1.463
938.9	940.20	2.576
938.5	939.29	1.517
937.4	938.29	1.350
937.2	937.66	1.589
935.7	937.43	3.467
934.5	935.26	1.460
934.9	935.99	1.889
933.9	934.95	1.534
933.6	934.32	2.134
933.1	933.58	1.629
932.5	933.30	1.550
931.5	932.08	1.696
931.1	931.61	1.779
930.5	930.79	1.993
931.1	931.36	2.061
931.1	931.85	1.783
931.1	931.04	2.259
931.1	931.71	1.704
929.1	929.79	1.551
.9988		
.9992		
.9986		
.9992		
.9991		
.9997		
.9982		
.9992		
.9988		
.9989		
.9992		
.9995		
.9991		
.9994		
.9996		
.9997		
.9997		
.9992		
1.0001		
.9993		
.9993		
.9992		
.0004		



TABLE 4-15

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	27	28		
1	14:42:00	911.0	907.7	906.4	910.2	907.0	907.0	908.6	914.4	907.0	907.0	906.0	906.2	907.1	908.3				
2	14:42:30	911.0	908.1	903.6	910.0	907.0	907.0	907.4	912.8	906.0	906.0	903.0	905.6	906.1	907.5				
3	14:43:00	909.0	905.8	903.6	907.3	906.0	906.0	906.5	912.8	905.0	905.0	903.0	904.0	905.8	907.3				
4	14:43:30	903.0	903.9	901.0	906.2	902.0	902.0	904.7	912.8	903.0	903.0	901.0	902.7	903.1	905.1				
5	14:44:00	906.0	901.9	899.4	904.4	901.0	901.0	903.1	912.4	901.0	901.0	899.0	901.2	901.7	903.8				
6	14:44:30	904.0	900.3	896.8	903.1	901.0	901.0	901.7	912.4	900.0	900.0	898.0	899.3	900.2	901.8				
7	14:45:00	904.0	900.5	897.7	903.1	899.0	899.0	901.4	913.0	900.0	900.0	898.0	899.1	900.0	901.5				
8	14:45:30	905.0	900.9	898.5	903.8	899.0	899.0	901.7	908.9	900.0	899.0	899.0	899.5	900.3	902.0				
9	14:46:00	903.5	901.4	897.7	904.3	899.0	899.0	901.8	908.9	900.0	899.0	900.0	899.6	900.4	902.1				
10	14:46:30	903.0	900.7	898.5	903.2	898.0	898.0	901.8	908.3	901.0	899.0	899.0	899.6	900.4	902.1				
11	14:47:00	901.0	901.5	898.5	904.2	895.0	895.0	901.5	908.3	900.0	899.0	900.0	899.6	900.1	902.0				
12	14:47:30	902.0	898.9	895.1	901.9	895.0	895.0	898.9	904.2	897.0	897.0	895.0	896.5	897.1	898.9				
13	14:48:00	900.0	897.6	894.3	899.9	896.0	896.0	898.2	904.2	895.0	895.0	895.0	896.5	897.1	898.9				
14	14:48:30	895.0	895.2	893.4	898.3	895.0	895.0	895.7	882.6	895.0	895.0	892.0	894.1	894.7	896.1				
15	14:49:00	889.0	892.9	890.0	895.5	892.0	892.0	893.5	898.1	893.0	893.0	892.0	891.5	891.6	894.2				
16	14:49:30	891.0	893.1	890.0	895.7	890.0	890.0	893.3	898.1	892.0	890.0	891.0	891.5	891.7	894.1				
17	14:50:00	893.1	893.4	890.0	896.0	891.0	891.0	893.3	898.1	892.0	890.0	891.0	891.3	892.0	893.9				
18	14:50:30	891.0	892.9	890.0	895.6	891.0	891.0	893.2	899.6	893.0	889.0	892.0	890.7	891.1	893.3				
19	14:51:00	882.0	891.8	889.2	894.4	889.0	889.0	893.2	899.6	893.0	888.5	892.0	890.8	890.8	893.8				
20	14:51:30	875.0	891.8	889.2	894.8	888.0	888.0	893.2	899.6	893.0	888.5	892.0	890.8	890.8	893.8				
21	14:52:00	866.0	891.0	887.5	893.7	886.0	886.0	892.3	894.5	892.0	887.0	893.0	889.7	889.2	893.1				
1		1.0034	.9997	.9961	1.0025	.9969	1.0007	1.0007	1.0071	.9989	.9989	.9978	.9981	.9991	1.0004				
2		1.0047	1.0015	.9966	1.0034	1.0003	1.0008	1.0008	1.0073	.9992	.9992	.9959	.9988	.9993	1.0009				
3		1.0031	.9995	.9971	1.0012	.9997	1.0013	1.0013	1.0073	.9986	.9986	.9964	.9984	.9995	1.0012				
4		1.0050	1.0004	.9972	1.0030	.9983	1.0013	1.0013	1.0073	.9994	.9994	.9972	.9991	.9996	1.0018				
5		1.0037	.9991	.9964	1.0019	.9981	1.0005	1.0005	1.0108	.9981	.9981	.9959	.9984	.9989	1.0013				
6		1.0040	.9999	.9960	1.0030	1.0007	1.0015	1.0015	1.0108	.9996	.9996	.9974	.9988	.9998	1.0016				
7		1.0033	.9994	.9963	1.0023	.9977	1.0004	1.0004	1.0132	.9988	.9988	.9966	.9978	.9988	1.0005				
8		1.0048	1.0002	.9976	1.0035	.9981	1.0011	1.0011	1.0084	.9992	.9992	.9981	.9987	.9996	1.0015				
9		1.0024	1.0001	.9960	1.0033	.9974	1.0005	1.0005	1.0084	.9985	.9985	.9974	.9984	.9993	1.0012				
10		1.0028	1.0002	.9978	1.0030	.9972	1.0015	1.0015	1.0084	1.0006	.9984	.9984	.9990	.9999	1.0018				
11		1.0001	1.0007	.9973	1.0037	.9957	1.0007	1.0007	1.0082	.9990	.9979	.9990	.9986	.9991	1.0012				
12		1.0040	1.0006	.9964	1.0039	.9962	1.0006	1.0006	1.0082	.9996	.9996	.9996	.9996	.9996	1.0012				
13		1.0027	1.0000	.9963	1.0026	.9982	1.0007	1.0007	1.0074	.9993	.9971	.9971	.9988	.9994	1.0014				
14		1.0003	1.0005	.9985	1.0040	1.0003	1.0011	1.0011	.9900	1.0003	.9983	.9993	.9993	.9994	1.0015				
15		.9972	1.0015	.9983	1.0045	1.0005	1.0024	1.0024	.9900	1.0017	.9983	1.0005	1.0005	1.0006	1.0033				
16		.9989	1.0012	.9977	1.0041	.9977	1.0017	1.0017	1.0061	1.0011	.9970	.9982	.9982	.9990	1.0016				
17		1.0005	1.0009	.9970	1.0038	.9982	1.0007	1.0007	1.0061	.9993	.9970	.9982	.9982	.9990	1.0016				
18		.9988	1.0010	.9977	1.0040	.9988	1.0014	1.0014	1.0061	1.0000	.9988	.9988	.9972	1.0000	1.0021				
19		.9895	1.0005	.9975	1.0036	.9973	1.0020	1.0020	1.0092	1.0018	.9973	1.0007	.9992	.9997	1.0021				
20		.9830	1.0018	.9989	1.0052	.9976	1.0034	1.0034	1.0092	1.0032	.9981	1.0020	1.0007	1.0007	1.0041				
21		.9951	1.0007	.9968	1.0037	.9951	1.0022	1.0022	1.0046	1.0018	.9962	1.0029	.9992	.9987	1.0031				
	MEAN	1.0003	1.0005	.9971	1.0033	.9982	1.0012	1.0012	1.0066	.9999	.9979	.9985	.9990	.9996	1.0018				
	S.D.	.0055	.0007	.0009	.0009	.0015	.0008	.0008	.0060	.0013	.0008	.0019	.0007	.0006	.0009				

27	MEAN	S.D.
906.5	907.96	2.505
905.8	906.70	2.221
905.3	906.23	2.632
902.8	903.50	2.046
901.5	902.67	3.372
899.7	900.18	1.976
899.6	901.06	3.907
900.1	900.48	1.974
900.3	901.35	2.819
900.0	900.48	1.681
899.8	900.89	2.736
897.2	898.37	2.156
896.7	897.60	2.576
894.1	894.74	1.555
892.0	891.52	3.105
891.6	892.02	1.861
891.7	892.64	2.274
891.4	892.03	1.525
891.1	891.39	3.839
891.4	890.18	4.989
890.3	890.38	2.894
.9984		
.9990		
.9990		
.9992		
.9987		
.9992		
.9984		
.9994		
.9988		
.9995		
.9988		
.9927		
.9990		
.9993		
1.0005		
.9995		
.9990		
.9993		
.9997		
1.0014		
.9999		
.9973		
.0007		

TABLE 4-16

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 16: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	27	28		
1	15:03:00	878.9	876.9	876.9	878.3	881.4	882.0	879.1	885.3	877.0	879.0	878.0	876.9	878.2	879.2				
2	15:03:30	879.7	876.0	876.0	880.6	881.8	883.0	879.8	881.8	877.0	878.0	878.0	877.4	878.6	879.8				
3	15:04:00	878.5	874.4	874.4	879.1	880.4	882.0	879.2	881.8	877.0	878.0	878.0	876.9	878.4	879.3				
4	15:04:30	877.6	873.5	873.5	877.6	879.9	881.0	877.4	881.8	876.0	876.5	876.0	875.2	876.7	877.7				
5	15:05:00	875.9	872.7	872.7	873.8	878.4	881.0	876.4	885.9	874.0	875.0	875.0	874.3	875.5	876.7				
6	15:05:30	875.0	871.8	871.8	875.3	877.8	880.0	875.7	885.9	873.0	875.0	875.0	874.6	876.0	877.0				
7	15:06:00	873.9	870.1	870.1	873.8	876.2	877.0	874.3	880.8	872.0	872.0	873.0	871.6	872.5	874.3				
8	15:06:30	871.7	868.4	868.4	870.0	874.3	875.0	871.9	880.8	870.0	871.0	870.0	869.3	870.5	872.0				
9	15:07:00	870.8	866.7	866.7	869.2	872.8	873.0	870.6	880.8	869.0	869.0	869.0	868.1	868.9	870.9				
10	15:07:30	869.0	865.9	865.9	868.5	871.4	874.0	869.4	875.6	865.0	865.5	868.0	866.9	868.6	869.4				
11	15:08:00	867.0	863.3	863.3	867.7	869.5	872.0	867.5	875.6	865.0	866.0	866.0	865.0	866.6	867.6				
12	15:08:30	865.4	861.6	861.6	865.4	867.7	869.0	866.0	869.5	864.0	864.0	864.0	863.3	864.1	865.7				
13	15:09:00	864.5	860.8	860.8	865.4	866.9	868.0	864.6	869.5	862.0	862.0	863.0	862.0	862.7	864.6				
14	15:09:30	863.8	860.0	860.0	863.9	866.0	868.0	863.9	865.4	862.0	863.0	863.0	861.4	862.3	864.2				
15	15:10:00	862.9	859.1	859.1	861.7	865.5	866.0	863.2	865.4	861.0	861.0	862.0	860.7	861.3	863.3				
16	15:10:30	861.6	858.3	858.3	858.6	864.7	865.0	861.6	851.9	856.0	857.0	856.0	855.4	856.3	857.9				
17	15:11:00	855.8	853.2	853.2	857.9	858.7	862.0	853.3	851.9	854.0	855.0	854.0	853.6	854.2	856.3				
18	15:11:30	857.3	853.2	853.2	858.6	859.3	859.0	855.6	863.8	853.0	854.0	853.0	853.6	854.4	855.8				
19	15:12:00	856.6	851.5	851.5	854.8	858.9	861.0	855.2	863.8	852.0	853.0	853.0	851.7	852.6	854.0				
20	15:12:30	854.7	850.6	850.6	853.3	857.1	859.0	853.7	860.2	850.0	853.0	849.0	849.8	851.1	852.1				
21	15:13:00	852.5	848.9	848.9	851.1	855.0	857.0	852.0	860.2	850.0	853.0	849.0	849.8	851.1	852.1				
1		.9997	.9975	.9975	.9990	1.0026	1.0033	1.0000	1.0070	.9976	.9998	.9987	.9975	.9989	1.0001				
2		1.0006	.9964	.9964	1.0016	1.0030	1.0044	1.0007	1.0070	.9987	.9987	.9987	.9980	.9994	1.0007				
3		.9998	.9951	.9951	1.0005	1.0019	1.0038	1.0006	1.0035	.9981	1.0003	.9992	.9980	.9997	1.0007				
4		1.0006	.9959	.9959	1.0014	1.0032	1.0045	1.0004	1.0035	.9988	.9993	.9988	.9979	.9996	1.0007				
5		.9994	.9958	.9958	.9970	1.0023	1.0052	1.0000	1.0102	.9973	.9984	.9984	.9976	.9990	1.0003				
6		.9999	.9963	.9963	1.0003	1.0031	1.0056	1.0007	1.0102	.9976	.9999	.9988	.9982	.9995	1.0011				
7		1.0000	.9957	.9957	.9999	1.0027	1.0036	1.0005	1.0079	.9979	.9979	.9990	.9974	.9984	1.0005				
8		1.0007	.9969	.9969	.9987	1.0037	1.0045	1.0009	1.0079	.9987	.9999	.9987	.9979	.9993	1.0010				
9		1.0005	.9958	.9958	.9987	1.0028	1.0031	1.0003	1.0120	.9985	.9990	.9985	.9974	.9984	1.0006				
10		1.0001	.9966	.9966	.9996	1.0029	1.0059	1.0006	1.0120	.9978	1.0007	.9990	.9977	.9997	1.0007				
11		.9994	.9951	.9951	1.0002	1.0023	1.0052	1.0000	1.0093	.9971	.9994	.9982	.9971	.9982	1.0001				
12		1.0005	.9961	.9961	1.0005	1.0032	1.0047	1.0012	1.0093	.9989	.9989	.9989	.9981	.9990	1.0009				
13		1.0003	.9961	.9961	1.0014	1.0031	1.0044	1.0005	1.0061	.9975	.9975	.9986	.9975	.9983	1.0005				
14		1.0005	.9961	.9961	1.0006	1.0030	1.0054	1.0006	1.0061	.9984	.9996	.9996	.9977	.9988	1.0010				
15		1.0008	.9970	.9970	.9973	1.0035	1.0044	1.0008	1.0034	.9983	.9983	.9994	.9979	.9984	1.0009				
16		.9995	.9964	.9964	1.0019	1.0029	1.0067	.9966	.9949	.9997	1.0009	.9997	.9990	.9984	1.0014				
17		1.0018	.9971	.9971	1.0034	1.0042	1.0038	.9999	.9949	.9980	.9992	.9992	.9980	.9975	1.0019				
18		1.0009	.9949	.9949	.9988	1.0036	1.0040	.9992	1.0093	.9967	1.0002	.9967	.9974	.9983	1.0007				
19		1.0013	.9945	.9945	.9996	1.0041	1.0063	1.0001	1.0093	.9981	1.0016	.9969	.9978	.9988	1.0005				
20		1.0002	.9960	.9960	.9966	1.0032	1.0055	.9996	1.0093	.9973	1.0008	.9961	.9971	.9986	.9997				
21		1.0003	.9942	.9942	.9999	1.0031	1.0048	1.0002	1.0067	.9980	.9993	.9985	.9978	.9989	1.0007				
	MEAN	.0006	.0006	.0006	.0015	.0006	.0010	.0010	.0048	.0007	.0014	.0009	.0004	.0006	.0005				
	S.D.																		

27	MEAN	S.D.
877.7	879.14	2.335
878.5	879.17	1.888
877.7	878.69	1.971
876.2	877.08	1.947
875.1	876.41	3.428
874.3	875.08	2.091
872.6	873.86	2.692
870.2	871.10	1.884
868.9	870.34	3.608
867.9	868.88	2.078
866.1	867.52	3.126
864.1	866.95	1.918
862.8	864.20	2.533
862.4	863.38	2.026
861.8	862.49	2.020
860.3	860.92	2.104
856.1	856.25	2.528
854.3	855.72	2.166
854.3	855.85	3.350
852.2	853.61	2.411
850.7	852.31	3.185
.9984		
.9992		
.9989		
.9990		
.9985		
.9991		
.9986		
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.9981		
.9988		
.0004		

TABLE 4-17

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980  
 RUN 17: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	27	28		
1	15:22:00		825.1	821.4	823.2	827.5	829.0	824.8	831.1	823.0	823.0	823.0	823.2	824.1	825.9				
2	15:22:30		819.9	816.3	824.0	821.9	826.0	821.0		819.0	821.0	819.0	819.3	819.7	821.8				
3	15:23:00		815.3	811.2	814.9	817.9	820.0	815.0	816.1	813.0	814.0	813.0	813.3	813.5	815.4				
4	15:23:30		817.6	814.6	817.9	819.9	823.0	818.3		816.0	816.0	816.0	815.7	815.7	818.3				
5	15:24:00		817.5	814.6	819.5	820.4	822.0	818.5	824.4	817.0	817.0	816.0	816.3	816.6	819.1				
6	15:24:30		816.9	814.6	820.2	819.9	820.0	818.2		817.0	816.5	816.0	816.2	816.5	818.8				
7	15:25:00		816.4	812.9	820.2	819.0	817.0	817.0	802.0	816.0	814.0	815.0	815.0	814.7	817.8				
8	15:25:30		813.6	810.4	814.9	816.5	815.0	814.1		813.0	813.0	813.0	812.5	812.5	815.2				
9	15:26:00		809.7	807.8	813.4	814.1	814.0	812.0		811.0	810.5	810.0	810.3	810.5	812.9				
10	15:26:30		810.4	807.0	813.4	813.9	811.0	811.5		810.0	808.0	811.0	809.3	808.5	812.2				
11	15:27:00		809.6	805.3	811.1	812.0	810.0	809.5	815.0	808.0	807.0	809.0	807.7	807.1	810.5				
12	15:27:30		805.4	801.9	808.1	808.2	807.0	805.0		804.0	803.0	804.0	803.3	803.1	806.2				
13	15:28:00		802.6	800.2	808.1	805.8	806.0	804.2	807.2	803.0	802.0	803.0	802.6	802.4	805.3				
14	15:28:30		799.4	795.1	799.7	802.3	801.0	800.1		799.0	797.0	798.0	797.9	807.4	808.7				
15	15:29:00		796.3	793.4	798.2	799.5	799.0	797.1	804.1	796.0	794.0	796.0	795.6	805.0	798.4				
16	15:29:30		796.3	792.6	799.0	799.1	798.0	796.9		795.0	793.5	796.0	795.1	794.6	797.7				
17	15:30:00		795.6	792.2	794.4	798.8	798.0	796.1	802.5	795.0	793.0	794.0	794.5	792.5	795.6				
18	15:30:30		794.1	791.3	795.9	796.5	798.0	794.5		793.0	792.0	793.0	793.2	792.1	795.3				
19	15:31:00		792.3	788.3	793.7	795.1	795.0	791.9	789.4	791.0	789.0	790.0	790.7	789.9	793.3				
20	15:31:30		792.4	788.3	793.7	795.4	794.0	792.5		791.0	789.5	792.0	791.2	790.3	793.8				
21	15:32:00		790.4	787.5	792.1	792.8	793.0	790.5	789.4	789.0	787.0	789.0	789.2	788.1	791.9				
1		1.0003	.9958	.9980	1.0032	1.0050	.9999	1.0076	.9977	.9977	.9977	.9977	.9980	.9991	1.0012				
2		.9990	.9946	1.0040	1.0015	1.0065	1.0004		.9979	.9979	1.0004	.9979	.9983	.9988	1.0013				
3		1.0006	.9956	1.0001	1.0038	1.0064	1.0002	1.0040		.9978	.9990	.9965	.9981	.9984	1.0007				
4		1.0003	.9967	1.0007	1.0031	1.0069	1.0012		.9984	.9984	.9984	.9984	.9980	.9980	1.0012				
5		.9990	.9955	1.0015	1.0026	1.0045	1.0003	1.0075		.9984	.9984	.9972	.9976	.9979	1.0010				
6		.9993	.9964	1.0033	1.0029	1.0030	1.0008		.9994	.9988	.9988	.9982	.9984	.9988	1.0016				
7		1.0015	.9972	1.0062	1.0047	1.0022	1.0022	.9838	1.0010	.9993	.9993	.9993	.9987	.9994	1.0032				
8		1.0000	.9961	1.0016	1.0036	1.0017	1.0006		.9996	.9996	.9990	.9984	.9988	.9990	1.0020				
9		.9999	.9957	1.0036	1.0043	1.0007	1.0013		.9994	.9994	.9970	1.0007	.9986	.9976	1.0022				
10		1.0004	.9951	1.0023	1.0034	1.0009	1.0003	1.0071		.9984	.9972	.9997	.9981	.9978	1.0015				
11		1.0007	.9964	1.0041	1.0042	1.0027	1.0002		.9990	.9990	.9977	.9990	.9981	.9978	1.0017				
12		.9983	.9953	1.0052	1.0023	1.0025	1.0003	1.0040		.9988	.9976	.9988	.9983	.9981	1.0017				
13		.9996	.9946	1.0000	1.0033	1.0016	1.0005		.9991	.9991	.9966	.9979	.9978	1.0013					
14		.9982	.9956	1.0036	1.0022	1.0016	.9992	1.0080		.9978	.9953	.9978	.9973	1.0091	1.0058				
15		1.0003	.9956	1.0036	1.0038	1.0024	1.0010		.9986	.9986	.9967	.9999	.9987	.9981	1.0020				
16		.9998	.9954	.9983	1.0039	1.0028	1.0005	1.0085		.9991	.9966	.9978	.9984	.9979	1.0020				
17		1.0000	.9965	1.0023	1.0031	1.0049	1.0005		.9986	.9986	.9974	.9986	.9989	.9980	1.0019				
18		1.0010	.9960	1.0028	1.0046	1.0045	1.0005	.9974		.9994	.9994	.9981	.9990	.9980	1.0023				
19		1.0006	.9954	1.0022	1.0043	1.0026	1.0007		.9988	.9988	.9969	1.0000	.9990	.9979	1.0023				
20		1.0006	.9954	1.0022	1.0043	1.0026	1.0007	.9993		.9988	.9963	.9988	.9991	.9977	1.0025				
21		1.0006	.9954	1.0022	1.0043	1.0026	1.0007	.9993		.9988	.9963	.9988	.9991	.9977	1.0025				
MEAN		.9999	.9958	1.0022	1.0034	1.0034	1.0034	1.0006	1.0077	.9988	.9977	.9986	.9984	.9993	1.0017				
S.D.		.0009	.0008	.0021	.0008	.0018	.0006	.0076	.0076	.0008	.0012	.0010	.0006	.0034	.0006				

27	MEAN	S.D.
823.9	824.87	2.483
820.2	820.70	2.429
813.8	814.81	2.447
816.3	817.33	2.239
817.1	818.29	2.613
816.8	817.51	1.754
815.6	815.19	4.263
812.8	813.58	1.561
810.6	811.29	1.878
809.6	810.45	2.028
807.8	809.26	2.446
803.6	804.83	2.024
803.0	803.96	2.217
798.3	799.68	2.972
795.8	797.74	3.376
795.5	796.10	2.002
794.8	795.74	2.679
793.4	794.88	1.940
791.0	791.47	2.165
791.4	791.94	1.977
789.1	789.93	1.919
.9988		
.9994		
.9988		
.9987		
.9986		
.9991		
1.0005		
.9990		
.9991		
.9990		
.9982		
.9985		
.9988		
.9983		
.9976		
.9992		
.9988		
.9991		
.9994		
.9993		
.9990		
.9989		
.0004		



27	MEAN	S.D.
742.6	743.42	2.111
742.0	742.53	2.202
740.2	740.04	1.953
735.5	737.60	1.754
734.1	734.70	2.544
732.2	732.31	1.960
.32.2	733.17	2.693
733.0	733.09	1.452
730.0	731.03	1.685
729.4	729.77	1.616
729.6	729.80	2.063
729.2	729.27	1.717
720.0	727.90	2.025
726.0	726.49	1.973
725.5	725.70	1.703
725.0	725.57	1.787
723.0	724.49	2.551
722.0	722.10	1.765
717.7	717.52	1.723
716.6	716.46	1.802
716.5	717.36	4.374

.9909  
 .9993  
 .9991  
 .9991  
 .9972  
 .9991  
 .9999  
 .9999  
 .9999  
 .9997  
 .9997  
 .9993  
 .9997  
 .9999  
 1.0000  
 .9993  
 .9997  
 1.0003  
 .9991  
 .9997  
 1.0002  
 1.0002  
 .9908  
 .9994  
 .0007



**TABLE 4-19**

**FOURTH INTERCOMPARISON - NOVEMBER 18, 1980**  
**RUN 19: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN**

READING	TIME (INST)	INSTRUMENT IDENTIFICATION NUMBER															
		3	5	7	8	10	11	13	16	17	18	20	24	25	26		
1	15:20:00	587.2	586.8	590.6	588.7	592.0	590.2	573.4	589.0	591.0	590.0	596.2	589.9	571.3			
2	16:20:30	585.7	582.5	586.8	587.2	587.0	585.5	584.0	584.0	585.0	585.0	584.3	584.3	586.5			
3	16:21:00	580.7	579.1	581.5	582.2	584.0	582.6	591.5	582.0	582.0	582.0	581.4	581.6	583.3			
4	16:21:30	577.7	574.9	576.2	579.5	579.0	578.2	577.0	577.0	578.0	578.0	576.6	576.9	578.9			
5	16:22:00	577.4	574.9	577.0	578.9	579.0	577.9	591.5	576.0	576.0	578.0	576.6	576.8	578.8			
6	16:22:30	573.5	571.9	573.2	575.1	577.0	575.7	584.4	574.0	576.0	575.0	574.1	574.3	576.4			
7	16:23:00	573.4	570.7	571.6	574.6	576.0	573.3	572.0	572.0	574.0	573.0	572.1	572.3	574.4			
8	16:23:30	572.7	570.7	570.9	574.4	576.0	573.3	576.2	572.0	574.0	573.0	571.6	572.2	570.8			
9	16:24:00	571.0	569.8	570.1	572.3	575.0	573.4	576.2	572.0	574.0	573.0	568.5	568.9	570.8			
10	16:24:30	568.9	567.3	570.1	570.5	572.0	569.8	574.6	568.0	570.0	569.0	568.4	568.7	573.3			
11	16:25:00	570.2	567.3	567.9	571.7	572.0	569.8	574.6	571.0	573.0	571.0	570.8	561.2	574.6			
12	16:25:30	573.1	569.8	570.1	574.6	574.0	572.0	577.4	572.0	575.0	574.0	572.6	572.9	577.3			
13	16:26:00	573.3	571.1	574.7	574.9	576.0	574.0	577.4	573.0	575.0	574.0	573.6	573.8	577.3			
14	16:26:30	577.8	573.2	574.7	578.5	577.0	574.8	555.2	575.0	576.0	575.0	575.6	575.2	577.3			
15	16:27:00	574.9	573.2	577.7	576.4	578.0	576.5	575.0	573.0	574.0	573.0	572.8	572.9	575.0			
16	16:27:30	572.3	570.7	571.6	574.0	575.0	574.3	575.8	573.0	574.0	573.0	572.0	571.6	574.1			
17	16:28:00	571.8	569.8	572.4	573.5	574.0	573.2	575.8	572.0	574.0	573.0	571.3	571.2	573.5			
18	16:28:30	572.5	569.8	573.9	574.3	574.0	572.6	570.3	571.0	572.0	572.0	571.3	571.2	573.3			
19	16:29:00	571.6	569.8	569.4	573.1	575.0	572.4	570.3	571.0	572.0	572.0	571.2	571.0	573.3			
20	16:29:30	571.2	569.8	570.9	573.0	574.0	572.4	573.0	571.0	572.5	572.0	571.2	569.6	572.0			
21	16:30:00	569.8	568.1	569.4	571.3	572.0	570.8	573.0	570.0	571.0	571.0	569.7	569.6	572.0			
1		.9969	.9963	1.0027	.9995	1.0051	1.0020	.9735	1.0000	1.0034	1.0017	1.0122	1.0015	1.0039			
2		1.0007	.9952	1.0026	1.0033	1.0029	1.0004		.9978	.9995	.9995	.9983	.9983	1.0021			
3		.9967	.9939	.9981	.9993	1.0023	1.0017	1.0152	.9989	.9989	.9989	.9979	.9982	1.0011			
4		1.0002	.9954	.9976	1.0033	1.0025	1.0011		.9990	1.0007	1.0007	.9983	.9980	1.0023			
5		.9984	.9941	.9978	1.0010	1.0012	.9993	1.0228	.9960	.9960	.9995	.9971	.9974	1.0009			
6		.9993	.9946	.9962	1.0014	1.0021	.9995	.9985	.9969	.9996	.9986	.9972	.9974	1.0028			
7		.9995	.9960	.9964	1.0025	1.0053	1.0006		.9983	1.0018	1.0001	.9985	.9992	1.0016			
8		.9977	.9956	.9961	.9999	1.0046	1.0018	1.0067	.9994	.9994	.9991	.9978	.9990	1.0023			
9		.9990	.9962	1.0011	1.0018	1.0044	1.0006		.9974	1.0009	.9992	.9983	.9990	1.0023			
10		1.0003	.9952	.9963	1.0029	1.0035	.9996	1.0000	.9965	1.0000	.9962	.9972	.9977	1.0058			
11		1.0031	.9973	.9979	1.0061	1.0047	1.0012	1.0000	.9994	1.0029	.9994	.9991	.9823	1.0057			
12		.9983	.9950	1.0013	1.0016	1.0036	1.0001	1.0040	.9966	1.0010	1.0001	.9976	.9982				
13		1.0046	.9966	.9992	1.0058	1.0032	.9993		.9962	.9997	.9980	.9973	.9976	1.0037			
14		1.0009	.9979	1.0058	1.0035	1.0063	1.0037	.9666	1.0011	1.0028	1.0011	1.0011	1.0014	1.0051			
15		.9983	.9955	.9971	1.0013	1.0030	1.0018		.9996	1.0033	.9996	.9992	.9994	1.0030			
16		.9983	.9948	.9993	1.0012	1.0021	1.0007	1.0053	.9986	1.0004	1.0004	.9986	.9979	1.0023			
17		1.0003	.9956	1.0027	1.0034	1.0029	1.0005		.9977	.9994	.9994	.9982	.9980	1.0027			
18		.9998	.9966	.9959	1.0024	1.0057	1.0011	.9975	.9987	1.0004	1.0004	.9992	.9991	1.0027			
19		.9988	.9946	.9983	1.0020	1.0037	1.0009		.9985	1.0011	1.0002	.9988	.9985	1.0025			
20		.9986	.9957	.9979	1.0013	1.0025	1.0004	1.0043	.9990	1.0008	1.0008	.9985	.9983	1.0025			
21																	
MEAN		.9994	.9957	.9989	1.0021	1.0016	1.0009	1.0022	.9983	1.0007	.9999	.9991	.9980	1.0025			
S.D.		.0019	.0010	.0027	.0018	.0013	.0011	.0175	.0013	.0017	.0010	.0032	.0038	.0019			

27	MEAN	S.D.
589.7	589.00	5.023
585.0	585.29	1.360
582.6	582.64	2.825
577.7	577.58	1.260
577.4	578.30	3.982
575.0	574.70	1.397
573.1	573.80	3.274
573.1	572.97	1.435
572.2	572.34	1.755
569.4	569.48	1.248
569.4	570.02	2.154
571.8	571.32	3.457
573.6	573.96	1.685
574.6	575.18	1.846
574.0	574.39	5.669
573.7	573.75	1.263
572.8	572.79	1.407
572.3	572.34	1.333
572.0	571.74	1.465
572.0	571.87	1.162
570.3	570.57	1.274
1.0012		
.9995		
.9989		
1.0002		
.9984		
1.0005		
.9988		
1.0002		
.9998		
.9999		
.9989		
1.0008		
.9994		
.9990		
1.0028		
1.0008		
1.0000		
.9999		
1.0004		
1.0002		
.9995		
1.0000		
.7010		

TABLE 4-20

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 20: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	10:01:00	888.0	886.3	883.3	886.8	885.0	888.0	887.3	894.3	883.0	886.0	885.0	886.6	885.6	887.1
2	10:01:30	890.5	888.2	884.1	888.3	888.1	890.0	888.0		885.0	887.0	887.0	888.0	886.8	888.6
3	10:02:00	892.0	889.4	885.0	889.5	888.3	890.0	889.8	898.5	886.0	889.0	888.0	889.0	887.6	889.3
4	10:02:30	892.0	890.2	886.7	890.1	889.1	891.0	890.8		886.0	889.0	889.0	889.8	888.7	890.4
5	10:03:00	894.5	891.9	888.3	891.9	891.2	893.0	891.8	901.0	888.0	890.5	891.0	891.0	890.0	891.7
6	10:03:30	894.5	892.3	888.3	892.6	894.3	894.0	892.8		889.0	891.5	891.0	892.2	891.2	892.6
7	10:04:00	893.0	891.5	887.5	891.6	889.1	892.0	892.0	901.0	888.0	890.0	891.0	891.0	889.8	891.5
8	10:04:30	894.0	891.5	887.5	891.6	889.1	892.0	892.0		889.0	890.0	891.0	891.2	890.1	891.8
9	10:05:00	895.0	892.8	888.3	892.6	892.2	892.0	892.4	896.9	889.0	891.0	891.0	891.7	890.6	892.2
10	10:05:30	893.0	893.0	889.2	892.7	893.3	893.0	893.5		890.0	891.0	892.0	892.4	891.3	892.8
11	10:06:00	895.0	893.1	889.0	893.6	893.3	894.0	893.9	899.5	890.0	892.0	893.0	893.3	892.1	893.7
12	10:06:30	894.0	892.4	889.2	892.3	890.2	894.0	893.2		890.0	891.0	892.0	892.9	891.7	893.3
13	10:07:00	894.0	893.4	888.3	893.2	889.1	894.0	893.2	901.0	890.0	891.0	892.0	893.7	892.7	894.1
14	10:07:30	896.0	893.6	890.0	893.9	891.2	895.0	894.2		890.0	891.0	892.0	894.9	893.7	895.2
15	10:08:00	897.0	894.7	891.7	894.8	892.2	897.0	895.2	903.6	892.0	894.0	895.0	896.7	895.4	897.2
16	10:08:30	899.0	897.5	893.4	896.9	898.5	899.0	897.0		893.0	896.0	896.0	898.1	897.0	898.4
17	10:09:00	900.0	898.1	895.1	897.7	896.4	900.0	898.3	907.7	894.0	896.0	896.0	898.9	897.8	899.2
18	10:09:30	901.0	899.0	895.1	898.9	900.6	900.0	899.4		895.0	898.0	898.0	900.0	898.9	899.3
19	10:10:00	899.0	897.1	895.9	900.2	899.5	900.0	899.3	906.7	896.0	897.5	898.0	900.0	898.9	899.3
20	10:10:30	901.0	901.3	897.6	901.5	899.5	902.0	901.4		897.0	899.0	900.0	901.1	899.8	901.3
21	10:11:00	904.5	903.6	900.2	903.2	900.6	904.0	904.0	911.8	900.0	902.0	903.0	903.6	902.5	903.8
1		1.0017	.9998	.9964	1.0003	.9983	1.0017	1.0009	1.0088	.9940	.9994	.9983	1.0001	.9990	1.0007
2		1.0033	1.0007	.9961	1.0008	1.0006	1.0027	1.0005		.9971	.9993	.9993	1.0005	.9991	1.0011
3		1.0035	1.0006	.9957	1.0007	.9944	1.0013	1.0011	1.0108	.9968	.9990	.9990	.9998	.9986	1.0005
4		1.0029	1.0009	.9970	1.0008	.9997	1.0018	1.0016		.9962	.9996	.9996	1.0005	.9992	1.0011
5		1.0031	1.0002	.9962	1.0002	.9994	1.0014	1.0001	1.0104	.9958	.9986	.9986	.9992	.9981	1.0000
6		1.0029	1.0004	.9959	1.0007	1.0026	1.0023	1.0010		.9967	.9995	.9989	1.0003	.9992	1.0007
7		1.0020	1.0003	.9958	1.0004	.9976	1.0009	1.0007	1.0110	.9964	.9986	.9997	.9997	.9984	1.0003
8		1.0035	1.0007	.9962	1.0008	1.0003	1.0012	1.0012		.9979	.9990	1.0001	1.0003	.9991	1.0010
9		1.0035	1.0010	.9960	1.0008	1.0004	1.0001	1.0006	1.0056	.9960	.9990	.9990	.9998	.9986	1.0004
10		1.0011	1.0011	.9968	1.0008	1.0014	1.0011	1.0016		.9977	.9988	1.0000	1.0004	.9992	1.0009
11		1.0020	.9999	.9964	1.0004	1.0001	1.0009	1.0008	1.0070	.9964	.9986	.9998	1.0001	.9987	1.0005
12		1.0023	1.0005	.9969	1.0003	.9980	1.0023	1.0017		.9978	.9989	1.0000	1.0010	.9997	1.0005
13		1.0017	1.0010	.9953	1.0008	.9962	1.0017	1.0008	1.0095	.9972	.9983	.9994	1.0001	.9988	1.0006
14		1.0033	1.0006	.9966	1.0010	.9980	1.0022	1.0013		.9977	.9994	.9989	1.0008	.9996	1.0012
15		1.0024	.9998	.9964	.9999	.9970	1.0024	1.0004	1.0097	.9962	.9990	.9990	1.0000	.9987	1.0004
16		1.0029	1.0012	.9966	1.0005	1.0023	1.0029	1.0006		.9962	.9995	.9984	1.0003	.9991	1.0009
17		1.0022	1.0001	.9967	.9996	.9962	1.0022	1.0003	1.0107	.9955	.9988	.9977	1.0001	.9988	1.0004
18		1.0028	1.0006	.9963	1.0005	1.0024	1.0017	1.0011		.9962	.9995	.9995	1.0005	.9993	1.0008
19		1.0000	1.0001	.9966	1.0014	1.0006	1.0011	1.0004	1.0086	.9967	.9984	.9989	.9999	.9987	1.0004
20		1.0010	1.0013	.9972	1.0015	.9993	1.0021	1.0014		.9965	.9987	.9987	1.0011	.9996	1.0013
21		1.0014	1.0004	.9966	.9999	.9970	1.0008	1.0003	1.0094	.9964	.9986	.9997	1.0004	.9991	1.0006

27	MEAN	S.D.
885.3	886.51	2.618
886.7	887.59	1.705
887.2	888.86	3.374
888.5	889.38	1.620
890.1	891.73	3.041
890.9	891.94	1.814
889.6	891.24	3.108
889.9	890.91	1.557
890.5	891.88	2.122
891.2	892.03	1.306
891.8	893.22	2.230
891.4	891.99	1.507
891.3	892.50	2.920
892.4	893.02	1.647
893.3	894.89	2.882
895.2	896.43	1.865
896.9	898.05	3.124
897.4	898.45	1.771
897.6	898.97	2.508
899.5	900.14	1.514
902.3	903.27	2.756
.9986		
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TABLE 4-21

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 21: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	25	26		
1	10:23:00	913.0	911.8	908.8	911.8	918.2	915.0	913.0	920.1	913.0	912.0	912.0	909.9	911.6	913.0	911.6	913.0		
2	10:23:30	914.0	912.4	909.8	912.6	917.1	916.0	913.5	920.1	913.0	912.0	912.0	910.2	912.0	913.3	912.0	913.3		
3	10:24:00	916.0	913.7	909.7	913.5	918.2	917.0	913.7	920.1	913.0	912.5	912.5	910.8	912.6	914.0	912.6	914.0		
4	10:24:30	918.0	914.4	910.5	913.9	917.1	917.0	914.6	917.5	916.0	913.5	913.0	911.5	914.5	915.8	914.5	915.8		
5	10:25:00	918.0	914.8	911.4	914.7	919.2	918.0	915.8	917.5	916.0	915.0	914.0	912.7	914.5	915.8	914.5	915.8		
6	10:25:30	917.0	914.8	911.4	914.6	917.1	918.0	915.9	924.2	915.0	914.5	914.0	912.6	914.5	915.7	914.5	915.7		
7	10:26:00	916.0	915.5	911.4	914.7	921.3	917.0	915.4	924.2	915.0	914.0	914.0	912.1	914.1	915.2	914.1	915.2		
8	10:26:30	918.0	915.7	911.4	915.1	920.3	918.0	915.9	924.2	915.0	914.0	914.0	912.8	914.7	915.8	914.7	915.8		
9	10:27:00	918.0	917.4	913.0	917.6	915.1	918.0	916.7	925.8	916.0	915.0	915.0	913.7	915.4	916.8	915.4	916.8		
10	10:27:30	920.0	917.3	913.0	917.3	918.2	918.0	917.4	925.8	917.0	916.0	916.0	914.2	915.9	917.2	915.9	917.2		
11	10:28:00	919.0	917.6	913.9	917.3	918.2	919.0	917.9	925.8	918.0	916.0	916.0	914.4	916.3	917.5	916.3	917.5		
12	10:28:30	918.5	918.1	914.7	918.0	920.3	919.0	918.0	925.8	918.0	917.0	917.0	915.0	917.0	918.3	917.0	918.3		
13	10:29:00	922.0	917.5	914.7	917.3	923.4	920.0	919.3	925.8	919.0	918.0	918.0	915.6	917.5	918.6	915.6	918.6		
14	10:29:30	918.0	918.0	913.9	917.5	922.4	920.0	918.8	924.8	919.0	917.0	917.0	914.9	916.9	917.9	914.9	917.9		
15	10:30:00	917.0	917.9	914.7	917.5	924.5	919.0	918.9	924.8	919.0	916.0	917.0	915.1	917.2	918.3	915.1	917.2		
16	10:30:30	920.0	918.7	913.9	918.4	925.5	920.0	918.6	926.4	919.0	917.0	917.0	915.3	917.2	918.4	915.3	918.4		
17	10:31:00	921.0	918.7	915.6	918.0	922.4	921.0	919.6	926.4	919.0	918.0	918.0	916.1	918.2	919.2	916.1	918.2		
18	10:31:30	922.0	920.1	916.4	919.6	925.5	922.0	920.5	928.9	920.0	919.0	919.0	916.8	919.0	920.1	916.8	919.0		
19	10:32:00	922.0	920.4	916.4	919.5	927.6	922.0	920.9	928.9	921.0	919.0	919.0	917.2	919.5	920.4	917.2	919.5		
20	10:32:30	923.0	920.7	917.3	920.3	921.3	921.0	921.6	928.9	922.0	920.0	920.0	917.6	919.6	920.6	917.6	919.6		
21	10:33:00	924.0	920.6	916.4	919.8	925.5	921.0	921.7	928.9	921.0	919.0	920.0	917.5	919.7	920.6	917.5	919.7		
1		1.0000	.9987	.9954	.9987	1.0057	1.0022	1.0000	1.0078	1.0000	.9989	.9989	.9966	.9985	1.0000	.9985	1.0000		
2		1.0014	.9996	.9957	.9998	1.0048	1.0035	1.0003	1.0067	1.0003	.9992	.9992	.9972	.9992	1.0006	.9992	1.0006		
3		1.0022	.9997	.9953	.9995	1.0046	1.0033	.9997	1.0067	.9990	.9984	.9979	.9965	.9985	1.0001	.9985	1.0001		
4		1.0022	1.0004	.9961	.9999	1.0034	1.0033	1.0006	1.0022	1.0000	.9994	.9989	.9972	.9991	1.0005	.9991	1.0005		
5		1.0028	.9993	.9956	.9992	1.0041	1.0028	1.0004	1.0022	1.0006	.9995	.9984	.9970	.9990	1.0004	.9990	1.0004		
6		1.0022	.9998	.9961	.9996	1.0023	1.0033	1.0010	1.0022	1.0001	.9995	.9990	.9974	.9995	1.0008	.9995	1.0008		
7		1.0005	.9999	.9954	.9990	1.0063	1.0016	.9998	1.0094	.9994	.9983	.9983	.9962	.9984	.9996	.9984	.9996		
8		1.0029	1.0004	.9957	.9997	1.0054	1.0029	1.0006	1.0094	.9996	.9985	.9985	.9972	.9993	1.0005	.9993	1.0005		
9		1.0015	1.0009	.9961	1.0011	.9984	1.0015	1.0001	1.0100	.9994	.9983	.9983	.9968	.9987	1.0002	.9987	1.0002		
10		1.0037	1.0007	.9960	1.0005	1.0017	1.0015	1.0008	1.0100	1.0004	.9993	.9993	.9973	.9992	1.0006	.9992	1.0006		
11		1.0015	1.0001	.9960	.9997	1.0007	1.0016	1.0004	1.0090	1.0005	.9983	.9983	.9966	.9987	1.0000	.9987	1.0000		
12		1.0010	1.0006	.9969	1.0005	1.0030	1.0016	1.0005	1.0090	1.0005	.9994	.9994	.9972	.9994	1.0008	.9994	1.0008		
13		1.0033	.9984	.9954	.9982	1.0049	1.0012	1.0004	1.0075	1.0001	.9990	.9990	.9964	.9984	.9996	.9984	.9996		
14		1.0003	1.0003	.9959	.9998	1.0051	1.0025	1.0012	1.0071	1.0014	.9992	.9992	.9969	.9991	1.0002	.9991	1.0002		
15		.9936	.9996	.9961	.9992	1.0001	1.0008	1.0007	1.0071	1.0008	.9975	.9986	.9966	.9988	1.0000	.9988	1.0000		
16		1.0018	1.0004	.9952	1.0001	1.0078	1.0018	1.0003	1.0078	1.0000	.9986	.9986	.9967	.9988	1.0001	.9988	1.0001		
17		1.0019	.9994	.9960	.9986	1.0034	1.0019	1.0004	1.0078	.9997	.9986	.9986	.9966	.9988	.9999	.9988	.9999		
18		1.0023	1.0002	.9962	.9997	1.0061	1.0023	1.0004	1.0078	1.0001	.9990	.9990	.9966	.9990	1.0002	.9990	1.0002		
19		1.0012	.9995	.9952	.9985	1.0073	1.0012	1.0000	1.0067	1.0002	.9980	.9980	.9960	.9985	.9995	.9985	.9995		
20		1.0029	1.0004	.9967	1.0000	1.0011	1.0008	1.0014	1.0067	1.0018	.9997	.9997	.9960	.9997	1.0003	.9997	1.0003		
21		1.0033	.9996	.9950	.9997	1.0049	1.0000	1.0008	1.0086	1.0000	.9978	.9989	.9962	.9986	.9996	.9986	.9996		
MEAN		1.0018	.9999	.9958	.9995	1.0042	1.0020	1.0005	1.0077	1.0002	.9988	.9988	.9968	.9989	1.0002	.9989	1.0002		
S.D.		.0012	.0004	.0005	.0007	.0024	.0010	.0004	.0021	.0007	.0006	.0005	.0004	.0003	.0004	.0003	.0004		

27	MEAN	S.D.
911.6	912.99	2.897
911.8	912.76	2.090
912.5	913.95	2.783
913.1	914.02	1.852
914.4	915.45	2.009
914.2	914.95	1.748
913.7	915.57	3.282
914.6	915.38	2.255
915.4	916.59	2.955
915.8	916.65	1.721
916.1	917.53	2.736
916.9	917.56	1.467
917.3	918.93	2.905
916.6	917.71	2.069
917.0	918.26	2.898
917.3	918.31	2.665
917.8	919.27	2.656
918.7	919.91	2.261
919.1	920.86	3.382
919.3	920.31	1.558
919.4	921.01	3.123

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TABLE 4-22

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 22: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	27	28		
1	10:43:00	924.0	920.1	917.6	920.5	920.8	920.0	921.2	929.1	920.1	921.0	920.0	918.7	919.6	921.4				
2	10:43:30	925.0	921.5	918.0	920.9	921.8	923.0	921.6	928.3	920.0	921.0	920.0	919.1	920.1	921.8				
3	10:44:00	922.0	920.9	917.0	920.9	919.8	922.0	921.8	928.3	920.0	921.0	921.0	919.1	920.2	921.8				
4	10:44:30	924.0	921.6	918.4	921.5	920.8	921.0	921.8	928.3	920.0	921.0	921.0	919.0	919.8	921.9				
5	10:45:00	926.0	922.2	919.2	922.3	921.8	924.0	923.1	933.0	921.0	922.0	922.0	920.4	921.4	923.2				
6	10:45:30	926.0	921.9	919.2	922.7	922.9	922.0	923.1	933.0	921.0	923.0	922.0	920.1	921.2	922.8				
7	10:46:00	924.5	921.3	918.4	921.0	921.8	921.0	922.5	932.3	920.0	921.5	921.0	919.2	920.1	921.8				
8	10:46:30	926.0	923.0	919.2	922.5	923.9	923.0	922.6	933.7	921.0	922.0	921.0	919.9	921.1	922.7				
9	10:47:00	926.5	923.8	920.9	923.2	926.0	925.0	924.0	933.7	922.0	923.0	923.0	921.3	921.9	924.0				
10	10:47:30	928.0	924.6	921.8	924.5	928.1	926.0	924.7	934.6	923.0	924.0	923.0	922.1	923.0	924.7				
11	10:48:00	928.0	925.2	921.8	924.9	926.0	926.0	925.6	934.6	923.0	924.0	924.0	922.5	923.4	924.9				
12	10:48:30	929.0	925.4	921.8	924.6	927.0	926.0	925.6	934.6	924.0	925.0	924.0	922.5	923.4	925.2				
13	10:49:00	929.0	926.4	923.5	926.2	924.9	926.0	926.3	936.9	925.0	925.0	925.0	923.2	924.1	926.0				
14	10:49:30	929.0	926.6	922.6	925.6	928.1	926.0	926.4	936.9	925.0	925.0	924.0	922.9	923.8	925.5				
15	10:50:00	929.0	925.4	921.8	925.0	926.0	926.0	925.0	935.9	923.0	925.0	924.0	922.5	923.4	925.0				
16	10:50:30	928.0	924.9	921.4	924.6	926.0	925.0	925.3	935.9	923.0	924.0	924.0	922.2	923.2	924.9				
17	10:51:00	928.5	925.7	922.6	925.2	927.0	926.0	925.2	935.9	923.0	924.0	924.0	922.2	923.3	924.9				
18	10:51:30	929.0	924.8	920.9	924.7	928.1	927.0	925.5	936.4	923.0	924.5	924.0	921.9	922.6	924.6				
19	10:52:00	928.0	924.3	920.9	924.1	926.0	927.0	924.8	936.4	923.0	924.0	923.0	921.9	922.7	924.2				
20	10:52:30	929.0	924.3	922.2	924.1	929.1	928.0	924.9	936.4	923.0	924.0	923.0	922.2	922.9	924.6				
21	10:53:00	928.5	924.9	921.4	924.0	935.3	927.0	924.5	935.2	922.0	923.0	923.0	921.9	922.6	924.3				
1		1.0033	.9991	.9964	.9995	.9998	.9990	1.0003	1.0089	.9990	1.0001	.9990	.9976	.9985	1.0005				
2		1.0043	1.0005	.9967	.9999	1.0008	1.0021	1.0006	1.0078	.9989	1.0000	.9989	.9979	.9990	1.0008				
3		1.0010	.9998	.9956	.9998	.9986	1.0010	1.0008	1.0078	.9988	.9999	.9999	.9979	.9990	1.0008				
4		1.0035	1.0009	.9974	1.0008	1.0000	1.0002	1.0011	1.0078	.9991	.9991	1.0002	.9980	.9989	1.0012				
5		1.0034	.9992	.9960	.9993	.9988	1.0012	1.0002	1.0109	.9979	.9990	.9990	.9973	.9984	1.0003				
6		1.0042	.9998	.9969	1.0007	1.0009	.9999	1.0011	1.0109	.9988	1.0010	.9999	.9978	.9980	1.0008				
7		1.0029	.9995	.9963	.9991	1.0000	.9991	1.0008	1.0114	.9980	.9997	.9991	.9972	.9981	1.0000				
8		1.0042	1.0010	.9969	1.0004	1.0020	1.0010	1.0005	1.0114	.9988	.9999	.9988	.9976	.9989	1.0007				
9		1.0026	.9997	.9966	.9991	1.0021	1.0010	.9999	1.0104	.9978	.9988	.9988	.9976	.9976	.9999				
10		1.0039	1.0003	.9972	1.0001	1.0040	1.0018	1.0004	1.0104	.9985	.9996	.9985	.9976	.9985	1.0004				
11		1.0031	1.0001	.9964	.9997	1.0009	1.0009	1.0005	1.0102	.9977	.9988	.9988	.9967	.9979	.9997				
12		1.0045	1.0006	.9967	.9998	1.0023	1.0013	1.0008	1.0102	.9991	1.0002	.9991	.9975	.9985	1.0004				
13		1.0031	1.0003	.9972	1.0001	.9987	.9999	1.0002	1.0116	.9988	.9988	.9988	.9968	.9978	.9999				
14		1.0039	1.0013	.9970	1.0003	1.0030	1.0007	1.0011	1.0116	.9986	.9996	.9986	.9968	.9978	.9999				
15		1.0039	1.0000	.9961	.9996	1.0006	1.0006	.9996	1.0113	.9974	.9996	.9985	.9969	.9978	.9996				
16		1.0040	1.0006	.9968	1.0003	1.0018	1.0007	1.0011	1.0113	.9986	.9997	.9985	.9969	.9978	.9996				
17		1.0033	1.0003	.9970	.9998	1.0017	1.0006	.9998	1.0113	.9986	.9997	.9985	.9969	.9978	.9996				
18		1.0048	1.0002	.9960	1.0001	1.0038	1.0026	1.0010	1.0113	.9983	.9999	.9985	.9965	.9977	.9994				
19		1.0033	.9993	.9957	.9991	1.0012	1.0022	.9999	1.0124	.9979	.9990	.9979	.9967	.9976	.9992				
20		1.0047	.9996	.9974	.9994	1.0068	1.0036	1.0003	1.0124	.9982	.9993	.9982	.9974	.9981	1.0000				
21		1.0033	.9995	.9957	.9985	1.0107	1.0017	.9990	1.0106	.9963	.9974	.9974	.9962	.9970	.9988				
MEAN		1.0036	1.0001	.9966	.9998	1.0017	1.0010	1.0004	1.0106	.9983	.9994	.9989	.9973	.9983	1.0001				
S.D.		.0008	.0006	.0004	.0006	.0027	.0011	.0006	.0013	.0003	.0007	.0007	.0005	.0006	.0006				

27	MEAN	S.D.
920.1	920.94	2.652
920.7	921.04	1.496
920.4	921.08	2.384
920.4	920.80	1.390
921.9	922.90	3.201
921.5	922.10	1.602
920.7	921.81	3.229
921.4	922.09	1.710
922.8	924.07	3.102
923.6	924.36	1.925
923.7	925.13	3.081
924.1	924.83	1.822
924.5	926.13	3.295
924.5	925.36	1.815
924.0	925.40	3.377
924.0	924.32	1.638
923.7	925.41	3.362
923.6	924.59	2.273
923.5	924.92	3.672
923.7	924.64	2.358
923.5	925.41	4.418
.9991		
.9996		
.9993		
.9996		
.9989		
.9993		
.9988		
.9992		
.9986		
.9992		
.9985		
.9992		
.9992		
.9991		
.9985		
.9997		
.9981		
.9989		
.9985		
.9990		
.9979		
.9989		
.0005		



TABLE 4-23

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 23: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																
		3	5	7	8	10	11	13	16	17	18	20	24	25	26			
1	11:03:00	935.0	931.1	927.8	931.4	940.3	930.0	931.7	941.7	929.0	930.5	930.0	929.3	930.9	931.8			
2	11:03:30	935.0	931.9	927.8	931.3	935.1	930.0	932.0	942.3	930.0	930.5	930.0	929.3	930.5	932.0			
3	11:04:00	936.0	932.1	928.7	931.4	935.1	931.0	932.5	942.3	930.0	931.0	930.0	929.8	931.3	932.5			
4	11:04:30	935.0	932.7	929.1	932.8	936.1	931.0	933.0	931.0	931.0	932.0	931.0	930.3	931.8	933.0			
5	11:05:00	935.0	932.5	928.7	932.4	934.1	929.0	932.8	939.8	931.0	931.0	931.0	929.8	931.2	932.6			
6	11:05:30	936.0	932.9	929.5	933.0	932.0	928.0	933.9	939.8	932.0	930.5	933.0	930.5	931.7	933.6			
7	11:06:00	936.0	933.5	929.5	932.7	932.0	929.0	933.5	942.5	932.0	932.0	933.0	930.9	932.6	934.1			
8	11:06:30	937.0	935.1	931.2	934.3	936.1	931.0	934.9	942.5	933.0	933.0	934.0	931.8	933.4	935.4			
9	11:07:00	937.0	934.8	931.2	934.8	935.1	933.0	935.8	942.4	934.0	934.0	935.0	933.1	934.4	935.9			
10	11:07:30	939.0	935.8	932.1	935.7	935.1	934.0	936.0	942.4	934.0	935.0	935.0	933.5	934.6	935.9			
11	11:08:00	940.0	935.6	932.1	936.3	938.2	935.0	937.0	945.3	935.0	936.0	935.0	933.5	935.5	936.8			
12	11:08:30	940.0	936.4	932.9	936.4	938.2	935.0	936.6	945.3	934.0	936.0	935.0	934.0	935.6	936.9			
13	11:09:00	940.0	936.9	932.9	936.4	940.3	935.0	937.2	947.0	935.0	936.0	936.0	934.0	935.9	937.0			
14	11:09:30	939.0	936.8	932.9	936.4	939.3	935.0	936.9	947.0	934.0	935.5	935.0	933.7	935.8	937.0			
15	11:10:00	940.0	937.3	933.8	937.2	943.4	935.0	936.9	946.0	935.0	936.0	935.0	934.2	935.9	937.5			
16	11:10:30	939.0	937.5	934.2	937.5	941.3	934.0	938.1	946.3	935.0	936.0	936.0	934.7	936.7	937.9			
17	11:11:00	940.0	937.5	934.6	937.2	946.5	935.0	938.4	946.3	936.0	937.0	936.0	935.3	936.9	938.4			
18	11:11:30	940.0	937.2	933.8	936.5	941.3	935.0	938.0	946.3	935.0	937.0	936.0	934.9	936.8	937.9			
19	11:12:00	941.0	937.8	933.8	936.6	942.4	936.0	938.6	948.1	935.0	937.0	935.0	934.8	936.7	937.8			
20	11:12:30	941.0	937.8	934.6	937.2	937.2	936.0	938.4	948.1	936.0	937.0	936.0	935.0	936.9	937.8			
21	11:13:00	941.0	938.2	934.6	938.0	943.4	935.0	938.4	949.4	936.0	936.5	936.0	935.1	937.1	938.3			

1	1.0032	.9990	.9954	.9993	1.0088	.9978	.9996	1.0103	.9983	.9978	.9988	.9978	.9970	.9988	.9977			
2	1.0042	1.0009	.9965	1.0002	1.0043	.9988	1.0010	1.0107	.9994	.9988	.9994	.9988	.9981	.9994	1.0010			
3	1.0040	.9998	.9962	.9991	1.0030	.9986	1.0002	1.0107	.9986	.9978	.9986	.9976	.9973	.9989	1.0002			
4	1.0031	1.0006	.9968	1.0007	1.0043	.9988	1.0009	.9988	.9999	.9988	.9999	.9988	.9980	.9996	1.0009			
5	1.0031	1.0004	.9963	1.0003	1.0021	.9966	1.0007	1.0082	.9988	.9988	.9988	.9988	.9975	.9990	1.0005			
6	1.0043	1.0010	.9973	1.0011	1.0000	.9957	1.0020	1.0082	1.0000	.9984	.9984	1.0011	.9984	.9997	1.0017			
7	1.0032	1.0005	.9962	.9997	.9989	.9957	1.0005	1.0102	.9989	.9989	.9989	1.0000	.9977	.9996	1.0012			
8	1.0034	1.0014	.9972	1.0005	1.0025	.9970	1.0012	1.0102	.9992	.9992	.9992	1.0002	.9979	.9996	1.0017			
9	1.0032	.9998	.9960	.9998	1.0002	.9979	1.0009	1.0080	.9990	.9990	.9990	1.0000	.9980	.9994	1.0010			
10	1.0042	1.0008	.9968	1.0007	1.0000	.9988	1.0010	.9999	.9999	.9999	.9999	.9999	.9983	.9998	1.0016			
11	1.0039	.9992	.9954	.9999	1.0019	.9985	1.0007	1.0095	.9985	.9985	.9985	.9985	.9969	.9991	1.0004			
12	1.0044	1.0006	.9968	1.0006	1.0025	.9991	1.0008	1.0107	.9991	.9980	1.0001	.9991	.9980	.9997	1.0011			
13	1.0032	.9999	.9957	.9994	1.0034	.9979	1.0002	1.0107	.9979	.9979	.9990	.9990	.9968	.9989	1.0000			
14	1.0033	1.0010	.9968	1.0006	1.0037	.9991	1.0011	1.0093	.9991	.9980	.9996	.9996	.9977	.9999	1.0012			
15	1.0029	1.0001	.9963	1.0000	1.0066	.9974	.9996	1.0093	.9974	.9976	.9976	.9976	.9967	.9986	1.0003			
16	1.0025	1.0009	.9973	1.0009	1.0049	.9971	1.0015	1.0087	.9971	.9982	.9993	.9993	.9979	.9999	1.0013			
17	1.0020	.9994	.9963	.9990	1.0089	.9967	1.0003	1.0087	.9967	.9978	.9988	.9978	.9970	.9987	1.0003			
18	1.0034	1.0004	.9968	.9997	1.0048	.9981	1.0013	1.0087	.9981	.9981	1.0002	.9991	.9980	.9987	1.0012			
19	1.0035	1.0001	.9958	.9988	1.0050	.9982	1.0002	1.0111	.9971	.9971	.9992	.9971	.9969	.9989	1.0001			
20	1.0043	1.0009	.9975	1.0008	1.0003	.9990	1.0015	1.0111	.9990	.9990	1.0000	.9990	.9979	.9999	1.0009			
21	1.0030	1.0000	.9961	.9998	1.0055	.9964	1.0002	1.0119	.9974	.9974	.9982	.9976	.9967	.9988	1.0001			
MEAN	1.0034	1.0003	.9965	1.0000	1.0034	.9978	1.0007	1.0099	.9992	.9983	.9992	.9989	.9976	.9993	1.0008			
S.D.	.0007	.0004	.0006	.0007	.0028	.0011	.0006	.0012	.0006	.0008	.0006	.0010	.0006	.0005	.0006			

27	MEAN	S.D.
930.3	932.05	3.978
929.9	931.09	2.027
930.5	932.28	3.379
931.0	932.13	1.841
931.0	932.13	2.736
931.5	932.01	2.001
931.7	933.00	3.146
932.9	933.79	1.800
933.8	934.95	2.480
934.4	935.08	1.609
934.5	936.39	3.093
935.1	935.86	1.811
935.0	936.97	3.394
934.9	935.87	1.854
935.5	937.25	3.433
935.8	936.69	2.026
936.5	938.11	3.650
935.8	936.80	2.041
936.1	937.73	3.660
936.1	936.96	1.601
936.4	938.23	3.875
.9981		
.9987		
.9981		
.9988		
.9988		
.9995		
.9986		
.9990		
.9988		
.9993		
.9980		
.9992		
.9979		
.9990		
.9981		
.9990		
.9983		
.9989		
.9983		
.9991		
.9981		
.9986		
.0005		

TABLE 4-24

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 PUM 24: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	25	26		
1	11:23:00	941.0	939.0	935.5	939.1	939.5	941.0	940.1	950.0	938.0	940.5	939.0	937.0	938.8	940.3				
2	11:23:10	941.0	938.3	935.1	938.8	942.6	940.0	938.9	938.9	938.0	939.5	938.0	936.3	938.0	939.8				
3	11:24:00	939.5	938.6	935.1	938.8	941.5	942.0	939.3	948.8	938.0	939.0	939.0	936.4	938.2	939.8				
4	11:24:10	936.0	939.4	935.1	939.7	941.5	938.0	937.9	937.9	939.0	938.5	941.0	936.9	938.1	940.6				
5	11:25:00	938.0	939.6	935.1	939.7	941.5	939.0	940.8	948.2	940.0	940.0	943.0	937.3	938.6	941.3				
6	11:25:10	941.0	939.5	935.9	939.4	939.5	940.0	940.9	948.2	940.0	941.0	942.0	937.3	939.1	941.8				
7	11:26:00	940.0	940.2	936.8	940.5	942.6	940.0	941.0	949.6	940.0	942.0	943.0	937.8	939.4	942.0				
8	11:26:10	939.0	940.2	935.9	940.3	940.5	940.0	941.3	950.2	941.0	943.0	944.0	937.8	939.2	941.5				
9	11:27:00	942.0	941.1	936	941.0	946.7	942.0	941.3	948.1	941.0	943.0	942.0	938.3	940.1	941.9				
10	11:27:10	942.0	940.8	936	940.9	942.6	943.0	941.2	949.1	941.0	942.5	941.0	938.1	940.2	941.7				
11	11:28:00	943.0	942.1	937	942.3	946.7	945.0	942.7	949.1	941.0	944.0	942.0	939.2	941.4	942.8				
12	11:28:10	944.0	942.8	938	942.4	945.7	945.0	942.7	949.1	942.0	944.0	943.0	939.8	941.7	943.6				
13	11:29:00	944.0	942.8	938	942.1	943.6	945.0	942.7	952.0	942.0	943.5	943.0	936.6	941.9	943.8				
14	11:29:10	945.0	943.0	938	943.0	945.7	946.0	943.9	953.2	942.0	946.0	942.0	940.0	942.0	943.8				
15	11:30:00	945.0	942.7	939.3	942.3	942.6	947.0	943.3	953.2	942.0	946.5	942.0	940.2	942.3	943.9				
16	11:30:10	945.0	943.3	939.7	943.0	945.7	948.0	943.0	951.0	941.0	948.0	942.0	940.4	942.4	943.9				
17	11:31:00	946.0	942.8	938.4	942.8	943.6	946.0	942.3	951.0	941.0	942.0	942.0	939.8	941.7	943.1				
18	11:31:10	946.0	941.9	938.4	941.8	939.5	946.0	942.6	951.0	941.0	943.0	942.0	939.9	941.8	943.3				
19	11:32:00	943.0	942.1	938.6	942.2	946.8	946.0	942.3	950.0	941.0	943.0	942.0	939.5	941.2	943.2				
20	11:32:10	943.0	941.8	938.9	941.9	942.6	943.0	942.7	952.6	942.0	943.0	943.0	939.5	941.3	943.5				
21	11:33:00	943.0	943.0	938.4	942.3	942.6	944.0	942.7	952.6	942.0	943.0	944.0	939.6	941.1	943.4				
1		1.0013	.9991	.9956	.9992	.9997	1.0013	1.0003	1.0108	.9981	1.0007	.9991	.9970	.9989	1.0005				
2		1.0024	.9995	.9961	1.0001	1.0041	1.0014	1.0002	1.0099	.9992	1.0008	.9992	.9974	.9992	1.0011				
3		1.0000	.9983	.9953	.9993	1.0022	1.0027	.9998	1.0099	.9984	.9995	.9995	.9967	.9986	1.0003				
4		.9912	1.0009	.9963	1.0009	1.0031	.9994	.9993	1.0086	1.0004	.9999	1.0026	.9982	.9995	1.0021				
5		.9978	.9995	.9947	.9996	1.0015	.9989	1.0008	1.0086	.9999	.9999	1.0031	.9970	.9984	1.0013				
6		1.0013	.9997	.9959	.9994	.9997	1.0002	1.0012	1.0092	1.0002	1.0011	1.0024	.9974	.9993	1.0022				
7		.9930	.9992	.9956	.9995	1.0017	.9990	1.0000	1.0092	.9990	1.0011	1.0022	.9966	.9983	1.0011				
8		.9989	1.0002	.9956	1.0003	1.0005	1.0000	1.0013	1.0090	1.0010	1.0000	1.0042	.9976	.9991	1.0016				
9		1.0003	.9994	.9948	.9992	1.0032	1.0003	.9996	1.0090	.9992	1.0014	1.0003	.9964	.9963	1.0002				
10		1.0012	.9999	.9957	1.0001	1.0019	1.0023	1.0004	1.0090	1.0002	1.0018	1.0002	.9971	.9993	1.0002				
11		1.0005	.9995	.9956	.9997	1.0023	1.0026	.9996	1.0070	.9984	1.0015	.9994	.9965	.9988	1.0003				
12		1.0015	.9992	.9956	.9998	1.0033	1.0026	1.0001	1.0070	.9994	1.0015	1.0005	.9971	.9991	1.0011				
13		1.0012	.9999	.9953	.9997	1.0005	1.0023	.9998	1.0097	.9991	1.0007	1.0001	.9953	.9990	1.0010				
14		1.0027	1.0001	.9957	1.0001	1.0029	1.0032	1.0000	1.0097	.9990	1.0011	1.0001	.9969	.9990	1.0009				
15		1.0016	.9992	.9955	.9987	.9990	1.0037	.9998	1.0103	.9984	1.0011	.9984	.9965	.9987	1.0004				
16		1.0018	1.0000	.9962	.9997	1.0026	1.0050	1.0000	1.0087	.9981	1.0008	.9997	.9970	.9991	1.0007				
17		1.0013	1.0000	.9953	1.0000	1.0008	1.0034	.9995	1.0087	.9981	.9991	.9991	.9968	.9988	1.0003				
18		1.0027	1.0000	.9963	.9999	.9974	1.0043	1.0007	1.0078	.9990	1.0012	1.0001	.9979	.9999	1.0015				
19		1.0006	.9996	.9955	.9995	1.0046	1.0014	.9996	1.0078	.9982	1.0004	.9993	.9966	.9985	1.0006				
20		1.0011	.9998	.9967	.9999	1.0007	1.0011	1.0008	1.0078	1.0000	1.0011	1.0011	.9974	.9993	1.0016				
21		1.0011	.9998	.9952	.9994	1.0007	1.0012	.9998	1.0103	.9991	1.0001	1.0012	.9965	.9981	1.0005				
MEAN		1.0006	.9997	.9956	.9997	1.0016	1.0017	1.0001	1.0092	.9992	1.0007	1.0006	.9969	.9989	1.0010				
S.D.		.0001	.0005	.0005	.0005	.0018	.0017	.0006	.0012	.0008	.0007	.0015	.0009	.0004	.0006				

27	MEAN	S.D.
938.5	939.82	3.183
937.9	938.73	1.862
938.4	939.48	3.084
938.9	938.59	1.813
939.0	940.07	2.931
939.4	939.77	1.651
939.6	940.97	2.913
939.9	940.84	1.852
940.2	941.71	2.990
940.1	940.85	1.700
940.9	942.54	2.556
941.8	942.56	1.930
941.7	942.87	3.316
941.8	942.94	1.983
942.2	943.58	3.261
942.0	943.26	2.100
941.7	942.81	2.869
941.5	941.91	1.919
941.2	942.66	2.798
941.4	941.97	1.354
941.5	942.89	3.346
.9986		
.9991		
.996.		
.0003		
.9989		
.9996		
.9985		
.9998		
.9984		
.9992		
.9983		
.9992		
.9988		
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.9986		
.9987		
.9988		
.9996		
.9985		
.9994		
.9985		
.9990		
.0005		

TABLE 4-25

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 25: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER														25	26
		3	5	7	8	10	11	13	16	17	18	20	24				
1	11:51:00	945.0	940.8	937.0	940.5	946.0	946.0	941.5	951.5	939.0	941.0	939.0	939.3	939.9	941.5		
2	11:51:30	944.5	941.2	937.0	940.7	945.0	943.0	941.0	950.6	939.0	941.0	939.0	939.4	939.8	941.5		
3	11:52:00	945.0	940.4	937.4	941.2	942.9	946.0	942.2	950.6	940.0	941.0	940.0	939.5	939.8	941.9		
4	11:52:30	945.0	940.7	937.4	940.8	942.9	946.0	942.1	951.0	940.0	941.0	940.0	939.7	940.3	941.9		
5	11:53:00	945.0	941.1	937.8	941.2	942.9	946.0	942.2	951.0	940.0	941.0	940.0	939.6	939.9	941.9		
6	11:53:30	946.0	941.5	937.8	941.3	942.9	946.0	942.5	950.9	940.0	941.0	941.0	940.4	940.4	942.4		
7	11:54:00	945.0	941.7	937.4	940.9	945.0	943.0	942.4	950.9	940.0	941.0	941.0	939.5	940.2	942.1		
8	11:54:30	945.0	940.6	937.8	940.3	943.9	942.0	941.9	950.9	940.0	940.5	940.0	939.8	940.2	942.1		
9	11:55:00	946.0	941.8	937.8	941.3	946.0	943.0	942.5	952.1	941.0	942.0	941.0	939.8	940.4	942.7		
10	11:55:30	946.0	941.5	938.7	941.1	942.9	946.0	942.3	952.1	940.0	942.0	940.0	939.7	940.6	942.3		
11	11:56:00	946.0	941.7	937.8	940.9	941.8	946.0	942.1	949.2	940.0	942.0	940.0	940.1	940.8	942.5		
12	11:56:30	945.0	941.3	937.0	940.6	941.8	946.0	941.5	948.9	939.0	941.0	939.0	938.0	939.9	941.4		
13	11:57:00	946.0	940.3	937.0	940.0	941.8	946.0	941.2	948.9	939.0	941.4	939.0	938.7	939.6	941.1		
14	11:57:30	946.0	940.6	936.6	940.6	942.9	941.0	941.1	948.9	939.0	940.0	938.0	937.9	938.6	940.5		
15	11:58:00	945.0	941.0	937.0	940.9	941.8	942.0	941.7	950.8	940.0	940.5	939.0	939.0	939.7	941.5		
16	11:58:30	946.0	941.9	937.8	941.2	945.0	946.0	942.4	948.1	940.0	942.0	940.0	939.5	940.7	942.4		
17	11:59:00	946.0	940.7	937.8	941.0	949.1	946.0	941.9	948.1	940.0	942.0	940.0	939.6	940.7	942.3		
18	11:59:30	946.0	941.5	937.8	941.2	948.1	945.0	942.0	948.1	939.0	941.5	939.0	939.8	940.9	942.3		
19	12:00:00	946.0	941.9	938.7	941.2	948.1	946.0	942.3	950.5	940.0	941.0	939.0	939.6	940.5	942.2		
20	12:00:30	945.0	942.0	937.8	941.6	945.0	942.0	942.1	949.7	940.0	940.0	939.0	939.3	940.1	942.3		
21	12:01:00	945.5	941.3	937.8	940.6	943.9	941.0	942.5	949.7	941.0	941.0	942.0	940.0	940.6	942.9		
1		1.0033	.9959	.9948	.9985	1.0044	1.0044	.9996	1.0102	.9969	.9991	.9969	.9973	.9979	.9996		
2		1.0038	1.0003	.9959	.9998	1.0044	1.0023	1.0001	1.0102	.9980	1.0001	.9980	.9984	.9985	1.0007		
3		1.0035	.9966	.9954	.9994	1.0012	1.0024	1.0005	1.0094	.9982	.9992	.9980	.9976	.9980	1.0002		
4		1.0041	.9995	.9960	.9996	1.0018	1.0030	1.0010	1.0098	.9988	.9998	.9988	.9984	.9991	1.0008		
5		1.0036	.9993	.9958	.9994	1.0012	1.0002	1.0004	1.0098	.9981	.9992	.9981	.9977	.9980	1.0001		
6		1.0048	1.0000	.9961	.9998	1.0015	1.0005	1.0011	1.0094	.9985	.9995	.9985	.9984	.9988	1.0010		
7		1.0031	.9996	.9950	.9987	1.0031	1.0010	1.0003	1.0094	.9978	.9989	.9989	.9973	.9980	1.0000		
8		1.0041	.9995	.9965	.9991	1.0030	1.0010	1.0009	1.0094	.9980	.9994	.9980	.9986	.9990	1.0011		
9		1.0036	.9992	.9949	.9986	1.0036	1.0004	.9999	1.0101	.9983	.9994	.9983	.9971	.9979	1.0001		
10		1.0047	.9999	.9949	.9995	1.0014	1.0026	1.0008	1.0077	.9983	1.0004	.9983	.9980	.9980	1.0006		
11		1.0043	.9997	.9956	.9989	.9998	1.0011	1.0001	1.0077	.9979	1.0000	.9979	.9980	.9988	1.0006		
12		1.0045	1.0006	.9960	.9998	1.0011	1.0035	1.0008	1.0077	.9981	1.0003	.9981	.9979	.9988	1.0007		
13		1.0031	.9992	.9957	.9989	1.0008	1.0031	1.0002	1.0084	.9978	1.0000	.9978	.9975	.9985	1.0001		
14		1.0043	1.0007	.9964	1.0004	1.0031	1.0011	1.0012	1.0101	.9990	1.0000	.9978	.9978	.9985	1.0006		
15		1.0039	.9996	.9954	.9995	1.0005	1.0007	1.0004	1.0101	.9986	.9991	.9975	.9975	.9981	1.0002		
16		1.0046	1.0002	.9959	.9995	1.0035	1.0025	1.0008	1.0101	.9982	1.0003	.9982	.9977	.9985	1.0006		
17		1.0039	.9983	.9952	.9986	1.0022	1.0018	.9996	1.0062	.9976	.9997	.9976	.9971	.9983	1.0008		
18		1.0045	.9997	.9958	.9994	1.0047	1.0034	1.0002	1.0062	.9970	.9997	.9970	.9979	.9991	1.0005		
19		1.0038	.9995	.9961	.9997	1.0060	1.0017	1.0009	1.0066	.9974	.9985	.9964	.9970	.9980	1.0012		
20		1.0040	1.0008	.9961	1.0004	1.0040	1.0008	1.0009	1.0066	.9967	.9985	.9977	.9977	.9988	1.0012		
21		1.0037	.9992	.9955	.9985	1.0020	.9989	1.0005	1.0081	.9989	.9989	1.0000	.9978	.9985	1.0009		
MEAN		1.0040	.9996	.9958	.9993	1.0029	1.0017	1.0004	1.0089	.9982	.9995	.9981	.9978	.9985	1.0005		
S.D.		.0005	.0007	.0005	.0004	.0021	.0013	.0005	.0013	.0006	.0006	.0008	.0005	.0004	.0004		

.7	MEAN	S.D.
940.1	941.87	3.727
940.2	940.80	2.167
940.3	941.73	3.107
940.4	941.16	1.917
941.1	941.70	3.038
941.2	941.49	1.805
941.3	942.08	3.129
941.4	941.10	1.810
941.5	942.58	3.365
941.6	941.59	1.893
941.7	941.96	2.691
940.1	940.74	2.000
940.2	941.04	2.864
940.3	939.98	1.983
940.4	941.33	3.168
940.5	941.67	2.224
941.1	942.29	3.197
940.9	941.79	2.851
941.1	942.61	3.396
940.7	941.21	2.088
940.9	942.05	3.757

.9981
.9993
.9982
.9973
.9993
.9996
.9990
1.0002
.9984
.9995
.9995
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.9991
.9987
.9988
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.9991
.9986
.9995
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.9990
.0005

TABLE 4-26

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 26: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER															
		3	5	7	8	10	11	13	16	17	18	20	24	25	26		
1	12:12:00	943.0	939.3	936.4	940.2	944.9	941.0	941.1	947.6	939.0	939.0	940.0	938.2	938.9	941.6		
2	12:12:30	942.5	939.3	935.4	939.3	941.0	940.0	940.5	949.9	939.0	938.0	940.0	937.5	938.4	940.7		
3	12:13:00	942.0	939.5	936.4	940.2	942.8	942.0	940.5	949.9	939.0	938.0	940.0	937.7	938.8	941.0		
4	12:13:30	942.0	939.3	936.4	940.0	941.8	942.0	940.3	949.1	939.0	938.5	939.0	937.8	938.3	941.0		
5	12:14:00	942.9	940.4	936.4	940.3	944.9	942.0	940.6	949.1	939.0	938.0	939.0	937.8	938.4	941.4		
6	12:14:30	943.0	940.3	936.4	940.7	944.9	943.0	940.7	949.1	939.0	938.0	939.0	937.6	938.2	941.6		
7	12:15:00	938.0	939.9	936.4	940.2	943.9	941.0	940.3	946.3	939.0	938.0	939.0	937.6	938.3	941.0		
8	12:15:30	941.0	940.2	937.3	940.8	947.0	939.0	941.1	946.3	940.0	939.0	941.0	938.2	938.5	942.2		
9	12:16:00	941.5	939.3	936.4	939.5	938.6	937.0	940.3	948.8	939.0	938.0	942.0	937.2	937.2	941.6		
10	12:16:30	941.0	937.8	934.7	938.6	942.8	937.0	939.5	949.9	938.0	937.5	940.0	936.5	937.2	941.0		
11	12:17:00	940.5	937.1	933.9	937.5	940.7	936.0	937.7	947.8	937.0	936.0	938.0	935.2	936.1	939.8		
12	12:17:30	939.0	937.5	933.9	937.8	939.7	936.0	937.7	947.8	936.0	935.5	938.0	934.9	935.3	939.5		
13	12:18:00	939.0	937.4	933.0	937.5	938.6	936.0	937.8	945.9	936.0	935.0	938.0	934.9	935.0	939.4		
14	12:18:30	939.5	937.5	933.9	937.4	938.6	937.0	937.5	945.9	936.0	935.0	938.0	934.9	935.0	939.4		
15	12:19:00	939.0	937.7	933.9	937.6	939.7	938.0	937.7	946.4	937.0	935.5	938.0	935.4	935.9	939.6		
16	12:19:30	939.0	937.3	933.0	937.1	939.7	938.0	937.7	946.4	936.0	935.0	938.0	935.4	935.0	938.7		
17	12:20:00	938.0	936.2	932.2	936.0	939.7	938.0	937.0	946.2	936.0	934.0	935.0	934.0	934.5	937.6		
18	12:20:30	936.0	936.5	932.2	936.3	939.7	935.0	936.5	945.6	935.0	935.0	937.0	932.9	934.3	938.2		
19	12:21:00	936.0	935.2	931.3	935.5	940.7	935.0	936.2	945.6	935.0	932.5	936.0	933.7	933.7	937.9		
20	12:21:30	937.5	936.6	932.2	936.3	939.7	936.0	936.1	945.6	935.0	934.0	936.0	933.7	933.7	938.3		
21	12:22:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
22	12:22:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
23	12:23:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
24	12:23:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
25	12:24:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
26	12:24:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
27	12:25:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
28	12:25:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
29	12:26:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
30	12:26:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
31	12:27:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
32	12:27:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
33	12:28:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
34	12:28:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
35	12:29:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
36	12:29:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
37	12:30:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
38	12:30:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
39	12:31:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
40	12:31:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
41	12:32:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
42	12:32:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
43	12:33:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
44	12:33:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
45	12:34:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
46	12:34:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
47	12:35:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
48	12:35:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
49	12:36:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
50	12:36:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
51	12:37:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
52	12:37:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
53	12:38:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
54	12:38:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
55	12:39:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
56	12:39:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
57	12:40:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
58	12:40:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
59	12:41:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
60	12:41:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
61	12:42:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
62	12:42:30	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
63	12:43:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2	945.6	936.0	935.0	937.0	934.9	935.2	939.1		
64	12:43:30	938.5															

27	MEAN	S.D.
939.1	940.62	2.810
938.3	939.35	1.784
938.8	940.38	2.956
938.4	939.49	1.746
938.6	940.53	3.180
938.8	940.27	2.251
938.5	939.83	2.542
939.1	940.31	2.352
938.1	939.63	3.085
937.6	938.51	2.134
936.6	938.03	3.308
935.9	936.91	1.801
935.8	937.29	2.978
936.1	936.92	1.707
936.5	937.86	2.860
935.6	936.75	1.848
934.8	936.61	3.282
934.9	935.82	1.853
933.9	935.73	3.518
934.4	935.68	2.016
935.6	936.60	1.806
.9984		
.9989		
.9983		
.9988		
.9980		
.9984		
.9986		
.9987		
.9984		
.9990		
.9985		
.9989		
.9984		
.9991		
.9985		
.9988		
.9981		
.9990		
.9980		
.9986		
.9989		
.9986		
.0003		





27	MEAN	S.D.
930.4	931.03	3.298
930.3	930.31	1.565
929.5	930.70	3.806
930.0	930.16	1.459
930.4	930.99	3.209
928.9	928.70	1.589
927.7	928.07	2.726
927.9	928.01	1.361
928.2	929.13	3.109
927.7	928.36	1.719
927.3	928.59	3.405
928.0	927.96	1.724
926.4	927.49	3.729
928.3	928.59	1.932
928.4	928.89	2.318
928.1	927.64	1.818
928.4	928.94	2.728
928.1	927.95	1.808
927.9	928.17	2.937
927.7	927.72	1.721
927.7	928.83	3.672
.9993		
1.0000		
.9987		
.9998		
.9994		
1.0002		
.9996		
.9999		
.9990		
.9993		
.9986		
1.0000		
.9988		
.9997		
.9997		
1.0005		
.9994		
1.0002		
.9997		
1.0000		
.9988		
.9996		
.0005		

TABLE 4-28

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
 RUN 28: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER-----																25	26
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	25	26		
1	13:27:00	914.0	915.9	912.4	916.9	917.2	918.0	916.9	926.1	914.0	915.0	914.0	913.8	915.3	917.1	913.8	915.3	917.1	
2	13:27:30	914.0	915.0	911.4	916.9	916.2	917.0	916.3	921.0	913.0	914.0	914.0	912.9	914.5	916.6	912.9	914.5	916.6	
3	13:28:00	914.0	913.3	910.0	915.4	915.1	917.0	915.6	921.0	912.0	913.5	913.0	912.4	913.9	915.6	912.4	913.9	915.6	
4	13:28:30	907.0	911.4	908.4	913.9	914.1	915.0	913.0	918.6	911.0	911.0	911.0	911.3	911.9	913.4	911.0	911.9	913.4	
5	13:29:00	912.0	913.2	909.7	916.1	915.1	917.0	914.3	918.6	911.0	911.0	912.0	911.3	912.8	914.4	911.3	912.8	914.4	
6	13:29:30	914.0	912.4	909.1	913.9	914.1	917.0	913.5	921.0	911.0	911.0	911.0	910.9	912.5	913.8	910.9	912.5	913.8	
7	13:30:00	913.0	911.1	907.8	913.1	914.1	917.0	912.8	921.0	910.0	911.0	909.0	909.8	911.7	912.7	909.8	911.7	912.7	
8	13:30:30	912.0	910.7	907.3	910.8	912.0	916.0	912.2	922.8	909.0	910.0	909.0	909.3	911.1	912.0	909.3	911.1	912.0	
9	13:31:00	911.0	910.8	908.1	912.4	912.0	916.0	911.2	922.8	908.0	910.0	907.0	908.8	910.8	911.8	908.8	910.8	912.1	
10	13:31:30	911.0	910.9	908.2	911.6	913.1	915.0	912.3	922.1	909.0	911.0	909.0	909.0	910.8	912.1	909.0	910.8	912.1	
11	13:32:00	910.0	911.1	908.2	912.4	913.1	916.0	912.4	922.1	909.0	912.0	909.0	909.7	911.6	912.7	909.7	911.6	912.7	
12	13:32:30	911.0	909.7	906.5	910.1	911.5	914.0	910.5	920.2	907.0	910.0	906.0	907.8	910.8	910.7	907.8	910.8	910.7	
13	13:33:00	910.0	908.9	906.0	911.6	911.0	914.0	910.7	920.2	908.0	910.5	907.0	907.9	909.9	910.8	907.9	909.9	910.8	
14	13:33:30	903.0	904.1	903.0	904.8	907.9	912.0	908.2	912.5	904.0	905.0	904.0	905.0	906.7	917.9	905.0	906.7	917.9	
15	13:34:00	905.0	905.2	902.3	904.8	906.9	908.0	906.5	912.5	904.0	904.5	904.0	903.4	905.2	906.6	903.4	905.2	906.6	
16	13:34:30	904.0	905.1	902.3	906.3	906.9	909.0	907.0	907.1	904.0	905.0	904.0	903.7	905.4	907.0	903.7	905.4	907.0	
17	13:35:00	897.0	904.4	901.9	906.3	906.9	910.0	907.0	907.1	904.0	904.0	904.0	903.7	905.5	906.6	903.7	905.5	906.6	
18	13:35:30	895.0	904.7	902.0	905.6	905.9	906.0	906.3	909.6	903.0	902.0	905.0	902.9	904.1	906.6	902.9	904.1	906.6	
19	13:36:00	904.0	905.7	902.4	906.3	906.4	907.0	906.4	909.6	904.0	903.5	905.0	903.4	923.1	907.4	903.4	923.1	907.4	
20	13:36:30	904.0	906.2	902.9	907.8	907.9	909.0	907.5	916.3	904.0	905.0	915.0	904.3	906.0	907.6	904.3	906.0	907.6	
21	13:37:00	907.0	906.1	902.5	908.6	907.9	911.0	907.4	916.3	904.0	905.0	904.0	904.4	906.5	907.6	904.4	906.5	907.6	
1		.9977	.9998	.9959	1.0009	1.0012	1.0021	1.0009	1.0109	.9977	.9988	.9977	.9975	.9991	1.0011	.9975	.9991	1.0011	
2		.9992	1.0003	.9963	1.0024	1.0016	1.0025	1.0017	1.0072	.9981	.9992	.9992	.9980	.9997	1.0020	.9980	.9997	1.0020	
3		.9994	.9988	.9952	1.0011	1.0008	1.0028	1.0013	1.0072	.9974	.9990	.9985	.9978	.9995	1.0013	.9978	.9995	1.0013	
4		.9950	.9993	.9965	1.0026	1.0028	1.0038	1.0016	1.0056	.9983	.9994	.9994	.9984	1.0004	1.0020	.9984	1.0004	1.0020	
5		.9984	.9997	.9959	1.0029	1.0018	1.0039	1.0009	1.0056	.9973	.9973	.9984	.9977	.9993	1.0011	.9977	.9993	1.0011	
6		1.0016	.9998	.9962	1.0015	1.0017	1.0049	1.0010	1.0056	.9983	.9972	.9983	.9982	.9999	1.0014	.9982	.9999	1.0014	
7		1.0007	.9986	.9950	1.0008	1.0019	1.0051	1.0005	1.0095	.9974	.9985	.9963	.9972	.9993	1.0004	.9972	.9993	1.0004	
8		1.0012	.9998	.9961	.9999	1.0012	1.0056	1.0014	1.0125	.9979	.9990	.9979	.9983	1.0002	1.0012	.9983	1.0002	1.0012	
9		.9995	.9993	.9964	1.0011	1.0006	1.0050	.9998	1.0125	.9963	.9984	.9952	.9971	.9993	1.0004	.9971	.9993	1.0004	
10		1.0000	.9999	.9970	1.0007	1.0023	1.0044	1.0015	1.0125	.9978	1.0000	.9978	.9978	.9998	1.0012	.9978	.9998	1.0012	
11		.9978	.9990	.9958	1.0004	1.0012	1.0044	1.0004	1.0110	.9967	1.0000	.9967	.9974	.9995	1.0007	.9974	.9995	1.0007	
12		1.0016	1.0001	.9966	1.0006	1.0021	1.0049	1.0010	1.0108	.9972	1.0005	.9961	.9981	1.0005	1.0012	.9981	1.0005	1.0012	
13		.9996	.9994	.9952	1.0013	1.0007	1.0040	1.0003	1.0108	.9974	1.0001	.9963	.9973	.9995	1.0004	.9973	.9995	1.0004	
14		.9958	.9997	.9958	.9978	1.0012	1.0057	1.0016	1.0108	.9980	.9980	.9969	.9980	.9999	1.0022	.9980	.9999	1.0022	
15		.9993	.9996	.9964	.9991	1.0014	1.0027	1.0010	1.0074	.9982	.9988	.9952	.9976	.9996	1.0011	.9976	.9996	1.0011	
16		1.0004	.9997	.9966	1.0010	1.0016	1.0026	1.0018	1.0074	.9984	.9995	.9952	.9976	.9996	1.0011	.9976	.9996	1.0011	
17		.9913	.9994	.9967	1.0015	1.0022	1.0054	1.0023	1.0024	.9990	.9990	.9990	.9987	1.0007	1.0019	.9987	1.0007	1.0019	
18		.9902	1.0010	.9980	1.0020	1.0023	1.0024	1.0027	1.0024	.9990	.9990	.9990	.9987	1.0007	1.0019	.9987	1.0007	1.0019	
19		.9984	1.0003	.9967	1.0010	1.0011	1.0018	1.0011	1.0046	.9984	.9979	.9995	.9978	.9997	1.0022	.9978	.9997	1.0022	
20		.9979	1.0003	.9966	1.0021	1.0022	1.0034	1.0017	1.0046	.9979	.9990	.9990	.9982	1.0001	1.0013	.9982	1.0001	1.0013	
21		.9999	.9989	.9950	1.0017	1.0009	1.0043	1.0004	1.0102	.9966	.9986	.9966	.9970	.9994	1.0006	.9970	.9994	1.0006	
MEAN		.9984	.9996	.9942	1.0011	1.0016	1.0039	1.0012	1.0084	.9978	.9989	.9979	.9979	.9998	1.0019	.9979	.9998	1.0019	
S.D.		.0030	.0004	.0007	.0012	.0004	.0012	.0007	.0032	.0007	.0009	.0014	.0005	.0004	.0025	.0005	.0004	.0025	

27	MEAN	S.D.
915.2	916.12	3.185
914.6	914.74	1.691
913.9	914.38	2.513
911.8	911.57	2.243
913.1	913.44	2.478
912.6	912.56	2.849
911.4	912.37	3.268
911.1	910.89	2.857
910.5	911.41	3.826
910.5	910.96	1.835
911.1	912.03	3.418
909.2	909.57	2.153
909.4	910.39	3.356
906.5	906.79	3.966
905.1	905.60	2.398
905.1	905.41	1.570
905.2	904.91	2.929
904.4	903.82	2.970
905.0	905.41	1.852
905.9	905.94	1.822
905.8	907.08	3.448
.9998		
.9998		
.9995		
1.0003		
.9996		
1.0000		
.9989		
1.0002		
.9990		
.9995		
.9990		
.9996		
.9989		
.9997		
.9994		
.9997		
1.0003		
1.0006		
.9995		
1.0000		
.9986		
.9996		
.0005		

TABLE 4-29

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
RUN 29: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																		25	26
		3	5	7	8	10	11	13	14	17	18	20	24	25	26	27	28	29	30		
1	13:50:00	902.0	894.5	902.7	901.8	902.0	900.2	909.6	897.0	899.0	899.0	899.0	897.8	899.1	900.8						
2	13:50:30	904.0	892.2	904.2	900.8	903.0	900.2	909.6	897.0	899.0	899.0	899.0	897.9	898.8	900.7						
3	13:51:00	904.0	893.6	905.7	899.7	904.0	898.9	908.6	896.0	898.0	898.0	898.0	897.0	898.0	899.5						
4	13:51:30	903.0	893.4	901.2	899.7	905.0	898.2	908.6	895.0	898.0	898.0	898.0	896.6	897.9	898.7						
5	13:52:00	901.0	892.2	901.2	897.7	903.0	897.6	906.9	893.0	895.0	895.0	895.0	894.1	895.9	896.7						
6	13:52:30	898.0	892.2	900.4	897.7	899.0	896.6	906.4	893.0	895.0	895.0	895.0	894.1	895.0	896.3						
7	13:53:00	900.5	892.1	898.9	897.7	899.0	896.2	906.4	893.0	895.0	895.0	895.0	894.1	895.0	896.6						
8	13:53:30	901.0	892.0	899.7	897.7	898.0	895.7	905.1	892.0	895.0	895.0	895.0	894.1	895.0	896.3						
9	13:54:00	901.0	892.3	903.5	897.7	900.0	896.2	905.1	892.0	895.0	895.0	895.0	894.2	895.9	896.2						
10	13:54:30	901.0	891.6	899.7	896.7	901.0	895.5	905.6	892.0	895.0	895.0	895.0	893.6	894.5	895.6						
11	13:55:00	901.0	891.6	898.2	897.7	901.0	895.2	905.6	892.0	895.0	895.0	895.0	893.9	895.0	895.8						
12	13:55:30	900.5	890.4	898.9	897.7	900.0	895.4	905.6	891.0	895.0	895.0	895.0	893.5	894.4	895.2						
13	13:56:00	900.0	890.6	899.7	896.7	896.0	894.7	904.3	891.0	895.0	895.0	895.0	892.6	893.2	894.6						
14	13:56:30	899.0	890.4	890.4	895.6	895.0	894.6	906.1	890.0	895.0	895.0	895.0	893.1	894.1	895.3						
15	13:57:00	901.0	890.7	899.7	896.7	897.0	895.0	906.1	890.0	895.0	895.0	895.0	893.1	894.1	895.3						
16	13:57:30	900.0	890.2	898.2	896.7	898.0	894.5	904.1	889.0	895.0	895.0	895.0	891.5	892.3	893.8						
17	13:58:00	899.5	889.5	897.4	895.1	898.0	893.4	904.1	889.0	895.0	895.0	895.0	891.5	892.3	893.8						
18	13:58:30	898.5	889.0	898.2	893.6	897.0	892.1	901.1	889.0	895.0	895.0	895.0	891.5	892.3	893.8						
19	13:59:00	897.0	888.8	898.2	893.6	895.0	891.6	901.1	888.0	895.0	895.0	895.0	891.5	892.3	893.8						
20	13:59:30	892.0	889.1	897.4	893.6	894.0	891.8	899.6	888.0	895.0	895.0	895.0	891.5	892.3	893.8						
21	14:00:00	893.0	889.1	895.1	893.6	892.0	892.5	899.6	889.0	895.0	895.0	895.0	891.5	892.3	893.8						
1	1.0019	1.0019	.9936	1.0027	1.0017	1.0019	.9999	1.0103	.9463	.9986	.9986	.9986	.9972	.9987	1.0006						
2	1.0049	.9918	1.0051	1.0014	1.0014	1.0038	1.0007	1.0098	.9971	.9994	.9994	.9983	.9981	.9991	1.0013						
3	1.0047	.9931	1.0065	.9999	.9999	1.0047	.9990	1.0098	.9958	.9980	.9980	.9969	.9969	.9980	.9997						
4	1.0051	.9945	1.0031	1.0015	1.0015	1.0074	.9998	1.0098	.9962	.9996	.9996	.9962	.9962	.9980	1.0004						
5	1.0039	.9941	1.0042	1.0003	1.0003	1.0062	1.0001	1.0105	.9950	.9984	.9984	.9950	.9972	.9981	.9991						
6	1.0024	.9959	1.0051	1.0021	1.0021	1.0035	1.0008	1.0110	.9968	.9991	.9991	.9979	.9981	.9991	1.0005						
7	1.0045	.9951	1.0027	1.0013	1.0013	1.0006	.9997	1.0110	.9961	.9983	.9983	.9972	.9973	.9982	1.0001						
8	1.0059	.9958	1.0044	1.0022	1.0022	1.0025	.9999	1.0092	.9969	.9981	.9981	.9981	.9981	.9989	1.0006						
9	1.0047	.9950	1.0074	1.0010	1.0010	1.0035	.9993	1.0092	.9966	.9980	.9980	.9957	.9971	.9978	.9993						
10	1.0062	.9957	1.0047	1.0014	1.0014	1.0067	1.0000	1.0092	.9961	.9984	.9984	.9961	.9979	.9989	1.0002						
11	1.0053	.9948	1.0022	1.0016	1.0016	1.0053	.9988	1.0104	.9953	.9975	.9975	.9953	.9974	.9986	.9995						
12	1.0060	.9947	1.0042	1.0028	1.0028	1.0054	1.0003	1.0092	.9953	.9987	.9987	.9965	.9981	.9991	1.0000						
13	1.0054	.9949	1.0050	1.0017	1.0017	1.0009	.9994	1.0102	.9953	.9975	.9975	.9953	.9971	.9978	.9993						
14	1.0057	.9961	1.0073	1.0019	1.0019	1.0013	1.0008	1.0102	.9957	.9973	.9973	.9979	.9982	.9986	1.0004						
15	1.0059	.9964	1.0043	1.0026	1.0026	1.0041	.9992	1.0116	.9957	.9970	.9970	.9970	.9974	.9982	.9995						
16	1.0063	.9954	1.0043	1.0026	1.0026	1.0041	1.0002	1.0111	.9952	.9976	.9976	.9953	.9986	.9982	1.0004						
17	1.0060	.9948	1.0036	1.0010	1.0010	1.0043	.9991	1.0096	.9942	.9976	.9976	.9953	.9970	.9976	.9996						
18	1.0066	.9959	1.0062	1.0011	1.0011	1.0049	.9994	1.0096	.9949	.9972	.9972	.9959	.9980	.9987	.9996						
19	1.0050	.9958	1.0064	1.0012	1.0012	1.0028	.9990	1.0096	.9949	.9972	.9972	.9960	.9972	.9981	.9992						
20	1.0008	.9964	1.0069	1.0026	1.0026	1.0030	1.0006	1.0084	.9963	.9986	.9986	.9974	.9986	.9986	1.0008						
21	1.0010	.9966	1.0033	1.0016	1.0016	.9999	1.0004	1.0084	.9965	.9986	.9986	.9999	.9980	.9982	1.0009						
MEAN		1.0047	.9950	1.0048	1.0015	1.0035	.9998	1.0102	.9957	.9982	.9982	.9969	.9977	.9985	1.0001						
S.D.		.0017	.0012	.0014	.0007	.0020	.0006	.0009	.0008	.0008	.0008	.0012	.0005	.0005	.0006						

27	MEAN	S. D.
898.7	900.30	3.494
898.6	899.57	3.215
897.4	899.81	4.199
897.3	898.38	3.258
895.4	897.47	4.200
894.7	895.85	2.418
894.6	896.50	3.654
894.5	895.75	2.671
894.5	896.83	4.112
893.8	895.46	3.279
894.3	896.24	4.052
894.2	895.17	3.266
893.4	895.20	3.844
892.8	893.88	3.099
894.0	895.71	4.188
893.4	894.33	3.145
892.8	894.17	4.268
891.1	892.62	3.327
890.5	892.53	3.932
890.6	891.29	2.619
891.2	892.13	2.828
.9982		
.9989		
.9973		
.9988		
.9977		
.9987		
.9979		
.9986		
.9974		
.9981		
.9978		
.9989		
.9980		
.9988		
.9981		
.9990		
.9985		
.9983		
.9977		
.9992		
.9990		
.9983		
.0006		

TABLE 4-30

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
RUN 30: RAW DATA AND REFLECTION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	14:13:00	875.0	877.9	874.5	879.9	879.2	879.0	878.0	889.0	877.0	877.0	878.0	875.9	877.3	879.4
2	14:13:30	876.0	877.4	873.4	874.6	878.2	878.0	877.6		876.0	877.0	877.0	874.3	875.6	877.9
3	14:14:00	876.0	876.0	872.1	873.8	876.6	877.0	876.4	886.4	875.0	877.0	875.0	872.8	874.5	876.3
4	14:14:30	875.0	874.0	871.6	871.6	876.1	876.0	876.2		874.0	874.0	876.0	872.4	873.9	875.8
5	14:15:00	874.0	875.2	871.0	875.3	876.1	876.0	875.3	885.4	874.0	874.0	875.0	872.3	873.9	875.9
6	14:15:30	874.0	874.5	871.5	875.3	876.6	875.0	875.1		873.0	875.0	876.0	872.4	874.1	875.8
7	14:16:00	874.0	873.7	869.8	872.3	875.1	875.0	875.1	886.0	873.0	875.0	875.0	871.4	873.3	874.8
8	14:16:30	872.0	872.5	869.1	874.6	875.1	874.0	873.2		872.0	872.0	873.0	870.3	873.7	873.7
9	14:17:00	868.0	871.4	868.2	871.6	873.0	874.0	871.9	881.3	870.0	871.0	872.0	868.6	870.4	872.0
10	14:17:30	863.0	870.7	867.2	872.3	873.0	872.0	871.8		870.0	871.0	872.0	868.1	869.7	871.9
11	14:18:00	859.0	869.1	867.2	870.8	869.9	870.0	869.5	876.7	868.0	869.0	871.0	866.3	867.8	870.0
12	14:18:30	866.0	869.2	865.6	872.3	869.9	869.0	870.2		868.0	868.0	872.0	865.9	867.5	870.1
13	14:19:00	866.0	867.9	864.5	869.3	869.9	870.0	869.0	876.8	867.0	869.0	870.0	866.3	868.0	869.9
14	14:19:30	863.0	865.5	862.0	867.8	866.8	867.0	866.8		865.0	865.5	876.0	863.6	865.3	867.3
15	14:20:00	866.0	864.8	862.2	865.5	866.8	868.0	865.8	874.0	864.0	865.0	865.0	862.7	864.5	866.0
16	14:20:30	865.0	865.1	861.8	867.0	866.8	867.0	866.1		863.0	865.0	865.8	862.7	864.6	866.1
17	14:21:00	865.0	863.8	860.1	864.0	864.6	867.0	864.7	873.3	864.0	864.0	864.0	863.4	864.9	864.9
18	14:21:30	864.0	862.2	858.4	864.3	863.7	867.0	863.4		861.0	862.5	861.0	860.6	862.2	863.5
19	14:22:00	863.0	862.7	859.4	864.0	863.7	866.0	862.3	871.8	859.0	862.0	860.0	859.3	861.4	862.3
20	14:22:30	858.0	862.8	859.3	866.3	863.7	866.0	863.1		860.0	862.0	861.0	859.8	861.6	862.9
21	14:23:00		863.5	860.2	867.0	865.8	865.0	864.0	864.6	861.0	862.0	863.0	860.8	862.2	863.9
1		.9961	.9994	.9960	1.0017	1.0009	1.0007	1.0004	1.0120	.9984	.9984	.9995	.9971	.9987	1.0011
2		.9995	1.0011	.9965	.9979	1.0020	1.0018	1.0013		.9995	1.0026	1.0006	.9976	.9993	1.0017
3		1.0001	1.0001	.9956	.9975	1.0007	1.0012	1.0005	1.0119	.9989	.9989	1.0001	.9964	.9983	1.0004
4		1.0007	.9995	.9968	.9968	1.0019	1.0018	1.0021		.9995	.9995	1.0018	.9977	.9994	1.0016
5		.9985	.9999	.9960	1.0000	1.0009	1.0008	1.0000	1.0115	.9985	.9985	.9997	.9966	.9984	1.0007
6		.9994	1.0000	.9965	1.0009	1.0024	1.0005	1.0006		.9982	1.0005	1.0017	.9976	.9995	1.0007
7		.9993	.9990	.9945	.9974	1.0006	1.0016	1.0007	1.0131	.9982	1.0005	1.0005	.9964	.9985	1.0003
8		.9990	.9996	.9957	1.0045	1.0026	1.0024	1.0004		.9990	.9990	1.0002	.9971	.9994	1.0010
9		.9958	.9997	.9960	.9999	1.0015	1.0027	1.0003	1.0111	.9981	.9993	1.0004	.9965	.9984	1.0004
10		.9916	1.0005	.9965	1.0023	1.0031	1.0020	1.0018		.9997	1.0008	1.0020	.9975	.9993	1.0013
11		.9886	1.0002	.9981	1.0022	1.0012	1.0013	1.0007	1.0090	.9990	1.0001	1.0024	.9970	.9987	1.0013
12		.9969	1.0005	.9964	1.0041	1.0013	1.0003	1.0017		.9992	.9992	1.0038	.9967	.9986	1.0016
13		.9968	.9989	.9950	1.0006	1.0012	1.0014	1.0002	1.0092	.9979	1.0002	1.0014	.9971	.9991	1.0012
14		.9962	.9991	.9951	1.0018	1.0006	1.0008	1.0006		.9985	.9991	1.0112	.9969	.9989	1.0012
15		1.0004	.9990	.9960	.9998	1.0013	1.0027	1.0001	1.0096	.9981	.9992	.9992	.9965	.9986	1.0004
16		.9998	.9999	.9961	1.0021	1.0019	1.0044	1.0011		.9975	.9998	.9998	.9972	.9993	1.0011
17		1.0006	.9993	.9950	.9995	1.0004	1.0030	1.0003	1.0102	.9972	.9995	.9995	.9966	.9988	1.0005
18		1.0015	.9994	.9950	1.0041	1.0011	1.0050	1.0008		.9980	.9997	.9980	.9973	.9994	1.0009
19		1.0005	1.0001	.9963	1.0017	1.0013	1.0060	.9997	1.0107	.9959	.9993	.9993	.9962	.9986	.9997
20		.9953	1.0009	.9962	1.0049	1.0019	1.0066	1.0012		.9976	1.0000	.9974	.9995	.9986	1.0010
21		1.0001	1.0001	.9963	1.0062	1.0011	1.0019	1.0007	1.0014	.9972	.9996	.9996	.9970	.9986	1.0006
MEAN		.9978	.9998	.9960	1.0011	1.0015	1.0021	1.0007	1.0100	.9983	.9994	1.0008	.9970	.9989	1.0009
S. D.		.0033	.0006	.0008	.0025	.0008	.0014	.0006	.0011	.0009	.0007	.0028	.0004	.0004	.0006

27	MEAN	S. D.
878.1	878.43	3.300
877.0	876.44	1.490
875.4	875.95	3.214
873.1	874.41	1.628
875.2	875.29	3.069
875.2	874.94	1.425
876.0	874.57	3.558
873.1	872.86	1.949
871.4	871.65	3.164
871.1	870.27	2.651
869.1	868.99	3.610
868.6	868.74	2.094
868.7	868.82	2.763
866.2	864.27	3.270
865.0	865.69	2.719
863.1	863.16	1.860
864.2	864.45	2.944
862.5	862.72	2.243
861.7	862.57	3.158
862.1	862.04	2.375
863.0	863.32	1.997
.9996		
1.0004		
.9994		
1.0006		
.9999		
1.0008		
.9993		
1.0003		
.9997		
1.0010		
1.0002		
.9998		
.9999		
.9999		
.9992		
.9999		
.9997		
.9997		
.9998		
1.0001		
.9996		
.9999		
.0365		



TABLE 4-31

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980  
RUN 31: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER																			25	26
		3	5	7	8	10	11	13	16	17	18	20	24									
1	14:35:00	854.0	856.8	853.3	859.5	858.5	858.0	858.1	865.6	857.0	856.0	858.0	855.1	856.5	850.2							
2	14:35:30	853.0	856.3	853.0	856.4	857.5	858.0	857.3	856.0	856.0	855.0	857.0	854.8	855.5	857.5							
3	14:36:00	855.0	855.5	852.1	857.2	857.5	856.0	856.5	865.3	855.0	855.0	856.0	853.8	854.8	856.6							
4	14:36:30	855.0	855.4	852.2	856.4	856.4	857.0	856.2	856.5	855.0	855.0	856.0	853.0	853.6	855.8							
5	14:37:00	853.0	854.3	851.0	853.4	855.6	857.0	855.1	863.4	853.0	853.0	854.0	852.7	853.6	855.1							
6	14:37:30	854.0	852.7	849.6	851.9	854.4	854.0	854.2	863.4	853.0	851.5	854.0	851.5	852.2	854.1							
7	14:38:00	851.0	852.1	849.1	851.9	853.4	853.0	853.4	864.0	852.0	851.0	853.0	850.8	851.3	853.5							
8	14:38:30	853.0	851.9	848.7	849.6	853.4	853.0	852.2	863.2	851.0	851.0	852.0	850.3	851.0	852.7							
9	14:39:00	852.0	851.2	848.1	850.4	853.4	853.0	852.1	863.2	851.0	851.5	851.0	850.8	850.8	852.3							
10	14:39:30	851.0	851.2	848.2	849.6	853.4	853.0	852.2	860.2	850.0	848.0	851.0	849.5	850.3	851.7							
11	14:40:00	850.0	850.6	847.7	852.7	851.3	852.0	850.8	860.2	850.0	849.0	850.0	849.3	849.6	851.5							
12	14:40:30	850.0	850.3	847.2	851.1	852.3	851.0	851.3	857.6	849.0	848.0	850.0	848.8	849.3	851.5							
13	14:41:00	850.0	849.8	846.7	849.6	851.3	850.0	850.3	857.6	849.0	848.0	850.0	847.6	848.4	850.4							
14	14:41:30	848.0	848.9	845.8	851.9	851.3	851.0	850.1	858.0	847.0	847.0	849.0	846.4	846.9	849.1							
15	14:42:00	847.0	847.6	844.7	848.1	849.2	849.0	848.0	856.0	846.0	846.0	847.0	845.1	845.7	847.7							
16	14:42:30	847.0	847.0	844.3	845.9	849.2	849.0	848.0	856.0	846.0	846.0	847.0	845.0	845.6	847.1							
17	14:43:00	846.0	846.6	843.6	849.6	848.2	848.0	847.9	856.0	846.0	846.0	847.0	845.0	845.3	847.1							
18	14:43:30	846.0	846.6	843.7	846.6	848.2	848.0	847.9	855.6	846.0	845.5	846.0	844.7	845.3	847.1							
19	14:44:00	846.0	846.2	843.2	842.8	847.7	847.0	847.1	855.6	846.0	845.0	845.0	843.4	844.2	845.8							
20	14:44:30	846.0	845.1	841.9	846.6	846.1	847.0	845.3	853.8	844.0	845.0	844.0	843.2	844.2	845.7							
21	14:45:00	846.0	845.0	841.8	845.9	846.1	848.0	845.5	853.8	844.0	845.0	844.0	843.2	844.2	845.7							
1		.9960	.9993	.9952	1.0024	1.0013	1.0007	1.0008	1.0096	.9995	.9984	1.0007	.9973	.9989	1.0009							
2		.9966	1.0005	.9966	1.0006	1.0019	1.0024	1.0016	1.0096	.9995	.9989	1.0013	.9987	.9995	1.0019							
3		.9988	.9993	.9954	1.0013	1.0017	.9999	1.0005	1.0108	.9988	.9988	.9992	.9974	.9985	1.0006							
4		.9999	1.0004	.9967	1.0016	1.0016	1.0023	1.0013	1.0108	.9999	.9999	1.0011	.9976	.9983	1.0009							
5		.9982	.9998	.9959	.9987	1.0011	1.0029	1.0007	1.0104	.9982	.9982	.9994	.9979	.9989	1.0007							
6		1.0014	.9998	.9962	.9989	1.0018	1.0014	1.0016	1.0104	1.0002	.9984	1.0014	.9984	.9993	1.0015							
7		.9979	.9992	.9957	.9970	1.0008	1.0003	1.0008	1.0132	.9991	.9979	1.0003	.9977	.9983	1.0009							
8		1.0018	1.0005	.9967	.9978	1.0022	1.0018	1.0008	1.0132	.9994	.9994	1.0006	.9986	.9994	1.0014							
9		.9999	.9990	.9954	.9981	1.0016	1.0011	1.0000	1.0131	.9986	.9993	.9986	.9976	.9985	1.0014							
10		1.0001	1.0003	.9968	.9984	1.0029	1.0024	1.0015	1.0131	1.0001	.9989	1.0001	.9983	.9992	1.0014							
11		.9989	.9996	.9962	1.0021	1.0004	1.0012	.9998	1.0109	.9989	.9985	.9989	.9981	.9984	1.0009							
12		.9998	1.0002	.9965	1.0011	1.0025	1.0010	1.0014	1.0109	.9988	.9987	.9986	.9984	.9984	1.0016							
13		1.0002	.9999	.9963	.9997	1.0017	1.0002	1.0005	1.0091	.9996	.9996	1.0008	.9982	.9983	1.0007							
14		.9984	.9995	.9958	1.0030	1.0023	1.0020	1.0009	1.0091	.9996	.9996	1.0009	.9982	.9989	1.0009							
15		.9984	.9991	.9957	.9997	1.0019	1.0007	1.0004	1.0114	.9984	.9984	1.0007	.9977	.9983	1.0009							
16		1.0000	1.0000	.9948	.9987	1.0026	1.0024	1.0012	1.0114	1.0000	.9989	1.0000	.9985	.9992	1.0013							
17		.9985	.9992	.9957	1.0027	1.0011	1.0008	1.0000	1.0103	.9985	.9985	.9987	.9974	.9981	1.0005							
18		.9995	1.0002	.9968	1.0002	1.0021	1.0018	1.0017	1.0103	.9995	.9989	1.0006	.9983	.9990	1.0015							
19		.9995	.9997	.9962	.9957	1.0015	1.0007	1.0008	1.0111	.9995	.9989	.9995	.9979	.9987	1.0008							
20		1.0011	1.0000	.9962	1.0018	1.0012	1.0023	1.0003	1.0111	.9999	.9999	.9999	.9999	.9990	1.0008							
21		1.0005	.9994	.9954	1.0004	1.0007	1.0029	1.0000	1.0098	.9982	.9994	.9982	.9972	.9984	1.0002							
MEAN		.9993	.9998	.9961	1.0001	1.0014	1.0015	1.0008	1.0109	.9993	.9987	1.0001	.9979	.9988	1.0010							
S.D.		.0014	.0005	.0005	.0019	.0007	.0009	.0006	.0013	.0007	.0008	.0008	.0005	.0004	.0004							

27	MEAN	S.D.
856.5	857.41	2.836
855.5	855.91	1.576
854.7	856.07	2.893
853.8	855.06	1.426
853.5	854.50	2.835
852.5	852.83	1.399
851.9	852.76	3.337
851.1	851.49	1.366
850.9	852.06	3.335
851.0	850.96	1.408
850.4	850.95	2.896
850.1	850.14	1.302
849.0	849.05	2.661
849.3	849.33	1.587
847.8	848.37	2.940
847.1	846.97	1.322
846.4	847.28	2.803
846.5	846.45	1.276
846.2	846.44	2.928
844.8	845.89	1.308
844.5	845.56	2.699
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FOURTH INTERCOMPARISON - NOVEMBER 17-19, 1980

RUN NO.	INSTRUMENT IDENTIFICATION NUMBER															
	3	5	7	8	10	11	13	16	17	18	20	24	25	26		
1		1.0000	.9930	1.0013	1.0003	1.0019	1.0018	1.0049	.9998	.9990	1.0007	.9979		1.0016		
2	.9991	1.0003	.9961	1.0016	1.0027	1.0027	1.0017	1.0111	.9988	.9987	.9988	.9975		1.0002		
3	.9997	1.0000	.9963	1.0022	1.0019	1.0015	1.0007	1.0119	.9984	.9981	.9974	.9975		1.0017		
4	1.0008	.9998	.9960	1.0019	1.0020	1.0000	1.0016	1.0107	.9989	.9977	.9991	.9975		1.0004		
7	1.0028	1.0001	.9966	1.0000	1.0023	1.0013	1.0013	1.0053	.9980	.9996	1.0032	.9975	.9976	1.0008		
8	1.0017	1.0007	.9965	1.0025	1.0022	.9997	1.0004	1.0009	.9971	.9992	.9982	.9974	1.0002	1.0005		
9	1.0041	1.0002	.9962	1.0013	1.0024	1.0018	1.0007	1.0066	.9975	1.0008	.9987	.9971	.9978	.9995		
10	1.0018	.9998	.9959	1.0000	1.0023	1.0007	1.0007	1.0061	.9992	.9993	1.0004	.9973	.9985	1.0009		
11	1.0036	1.0000	.9948	1.0008	1.0027	1.0022	1.0004	1.0041	.9985	.9992	.9975	.9976	.9987	1.0016		
12	1.0034	.9996	.9961	1.0008	1.0021	1.0004	1.0006	1.0103	.9980	.9985	.9977	.9975	.9995	1.0008		
13	1.0006	1.0004	.9957	1.0027	1.0021	1.0023	1.0000	1.0094	.9983	.9984	.9989	.9976	.9988	1.0008		
14	1.0006	1.0000	.9966	1.0001	1.0027	.9994	1.0019	1.0040	.9991	.9992	1.0006	.9983	.9992	1.0013		
15	1.0003	1.0005	.9971	1.0000	1.0033	.9982	1.0012	1.0066	.9999	.9979	.9985	.9980	.9996	1.0018		
16		1.0003	.9962	.9999	1.0031	1.0048	1.0002	1.0067	.9989	.9993	.9985	.9978	.9989	1.0007		
17		.9999	.9958	1.0022	1.0034	1.0034	1.0004	1.0027	.9988	.9977	.9986	.9993	.9993	1.0017		
18		.9993	.9962	1.0010	1.0023	1.0043	1.0008	1.0041	.9990	.9975	.9992	.9974	.9998	1.0016		
19		.9994	.9957	.9989	1.0021	1.0036	1.0009	1.0022	.9983	1.0007	.9999	.9991	.9980	1.0025		
20	1.0023	1.0005	.9964	1.0006	.9992	1.0017	1.0009	1.0392	.9967	.9990	.9993	1.0002	.9990	1.0025		
21	1.0018	.9999	.9958	.9995	1.0042	1.0020	1.0005	1.0077	1.0002	.9988	.9988	.9968	.9989	1.0002		
22	1.0036	1.0001	.9966	.9998	1.0017	1.0010	1.0004	1.0106	.9983	.9994	.9989	.9973	.9983	1.0001		
23	1.0034	1.0003	.9965	1.0000	1.0034	.9978	1.0007	1.0093	.9983	.9992	.9989	.9976	.9993	1.0000		
24	1.0006	.9997	.9956	.9997	1.0016	1.0017	1.0001	1.0092	.9992	1.0007	1.0006	.9969	.9989	1.0010		
25	1.0040	.9996	.9958	.9993	1.0029	1.0017	1.0004	1.0009	.9982	.9995	.9981	.9978	.9985	1.0005		
26	1.0018	.9999	.9960	1.0001	1.0034	1.0002	1.0004	1.0092	.9990	.9981	1.0002	.9977	.9982	1.0019		
27	1.0005	.9998	.9965	.9999	1.0011	.9993	1.0004	1.0104	.9978	.9985	1.0002	.9976	.9980	1.0030		
28	.9984	.9996	.9962	1.0011	1.0016	1.0039	1.0012	1.0084	.9978	.9989	.9979	.9979	.9980	1.0019		
29	1.0047		.9950	1.0048	1.0015	1.0035	.9998	1.0102	.9957	.9996	.9969	.9977	.9985	1.0001		
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31	.9993	.9998	.9961	1.0001	1.0016	1.0015	1.0008	1.0109	.9993	.9987	1.0001	.9979	.9988	1.0010		
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